

FIG. 1
(Prior Art)

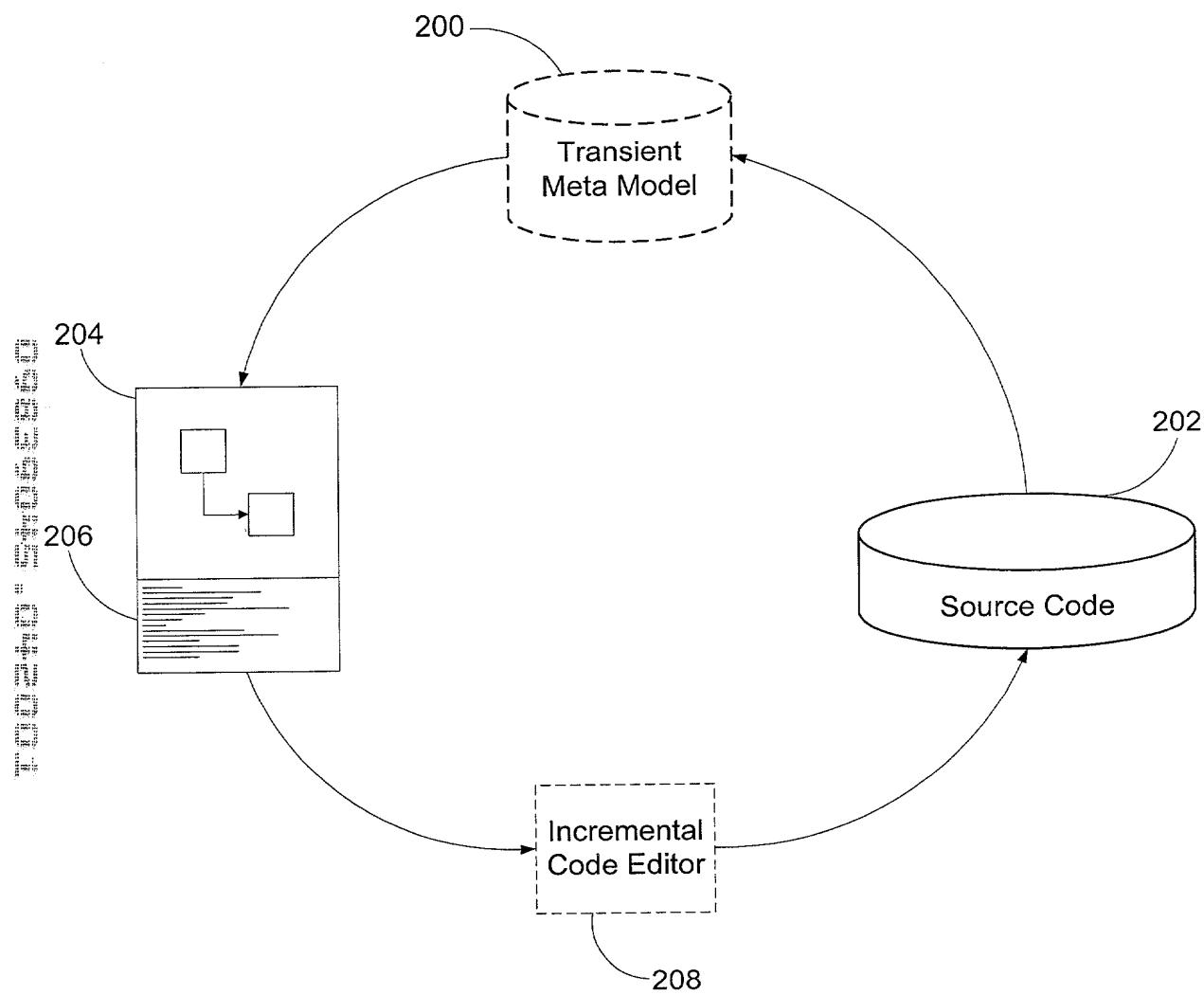
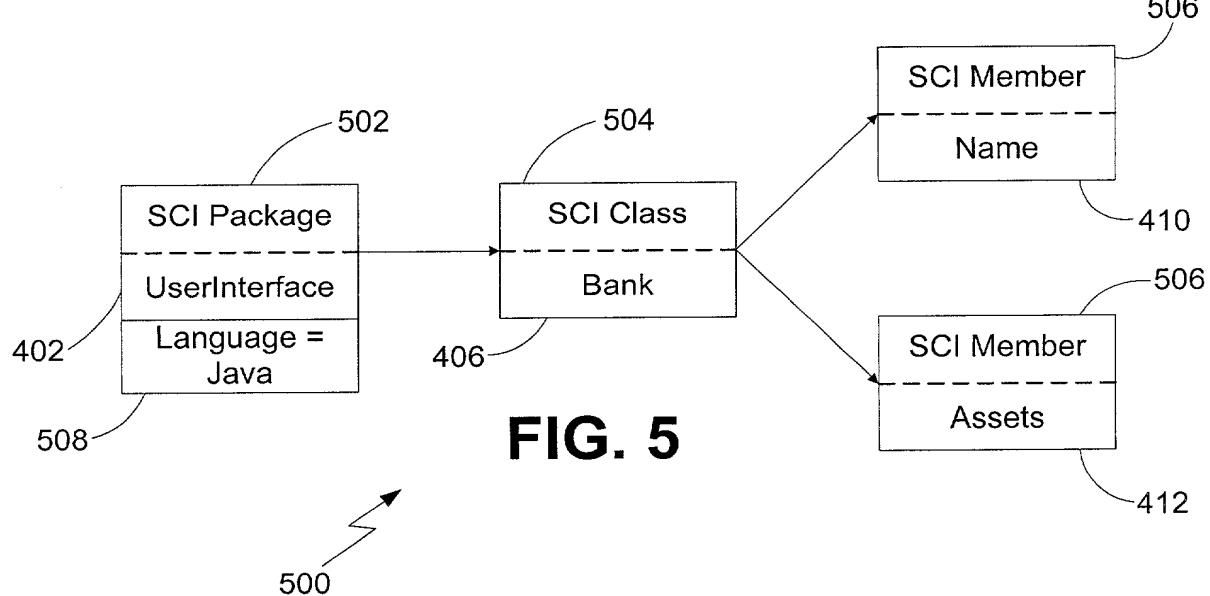
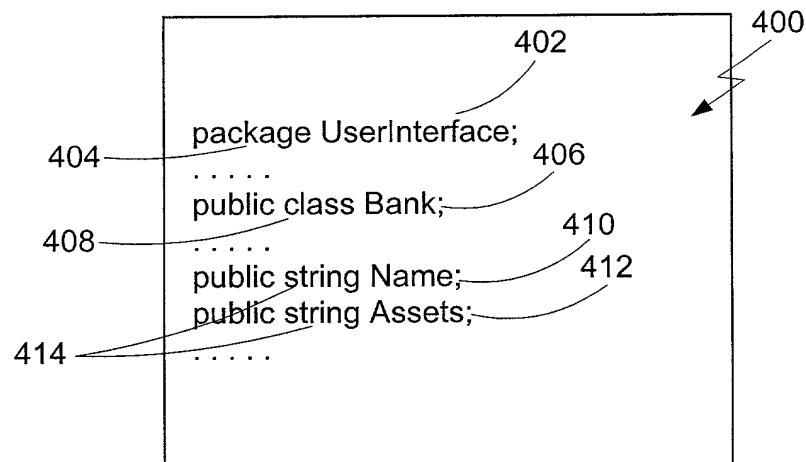
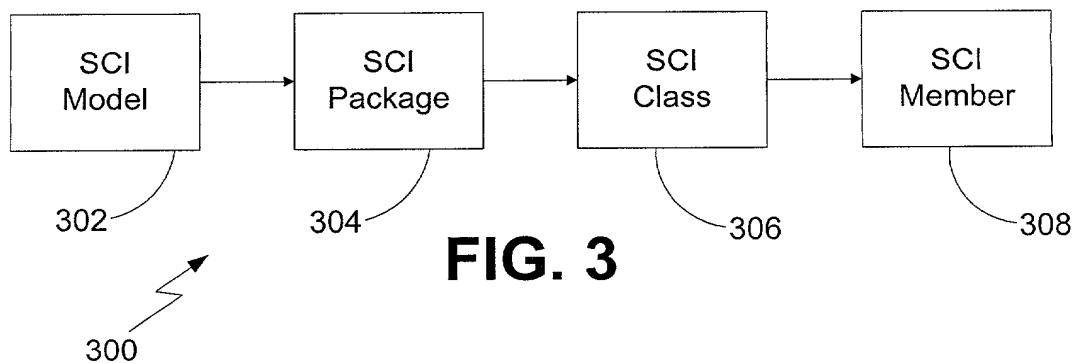


FIG. 2



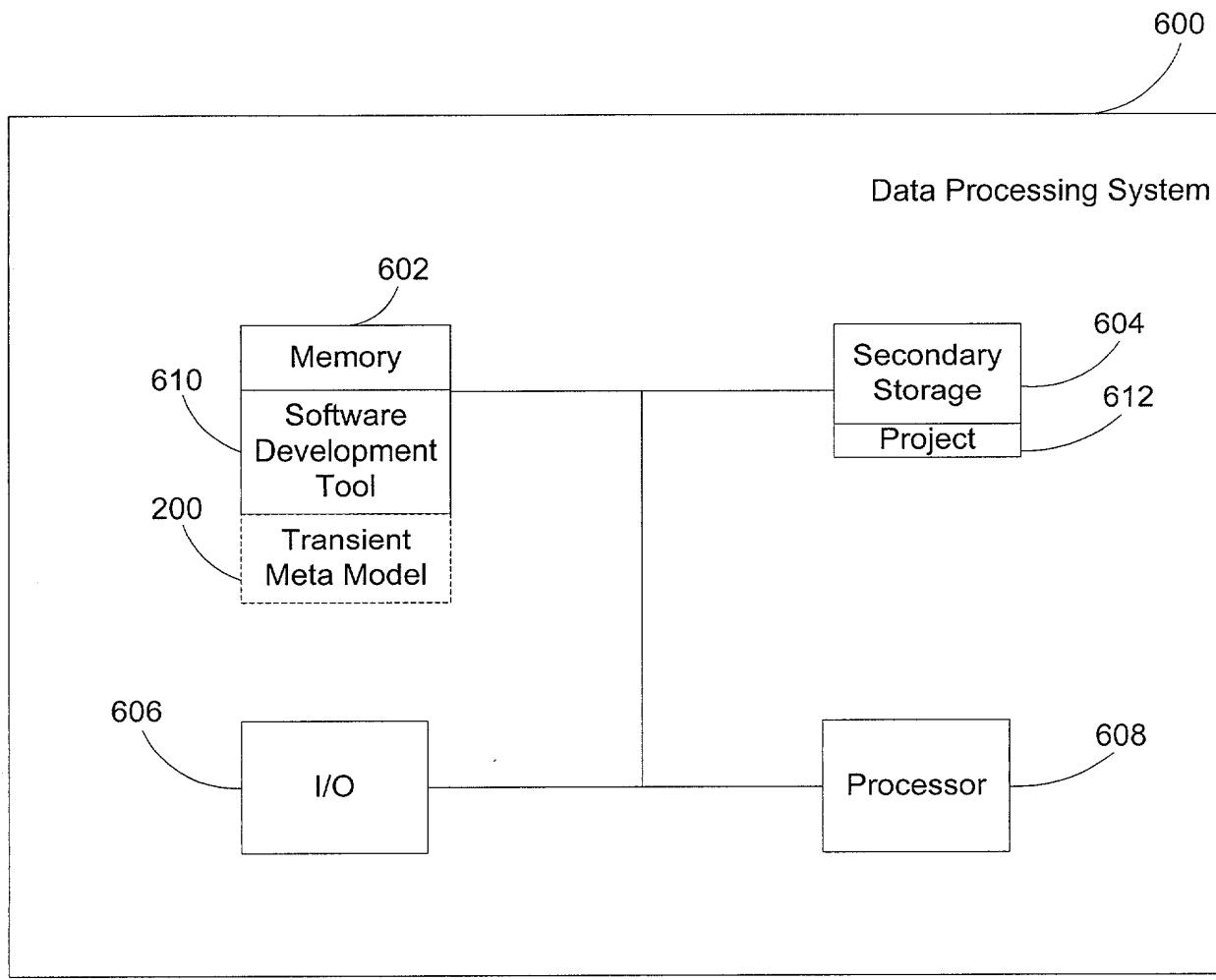


FIG. 6

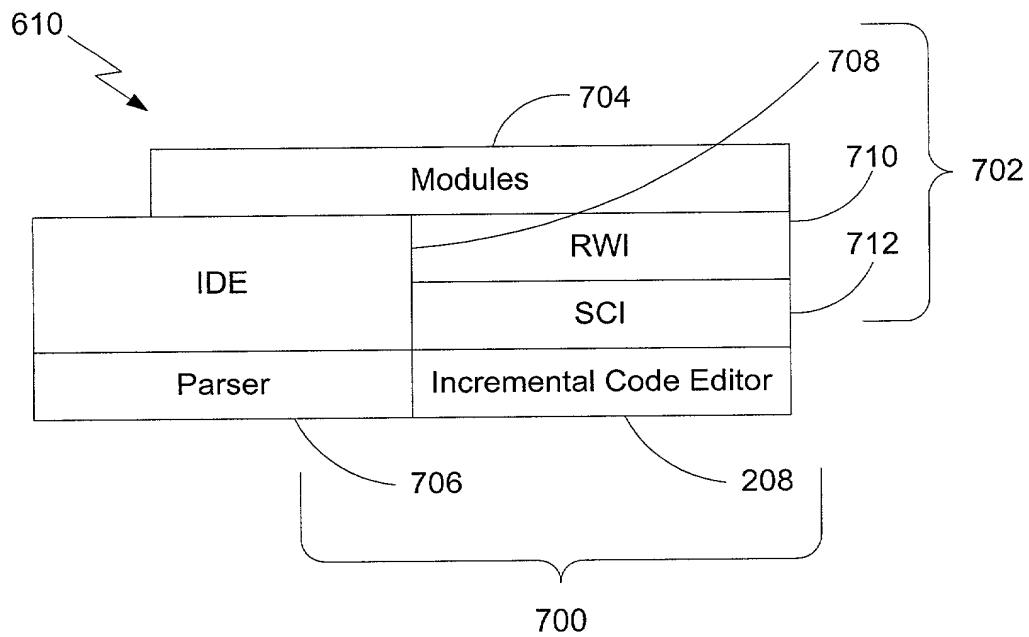


FIG. 7

QA Audit

Title	Abbreviation	Chosen	Severity:	High
<input type="checkbox"/> Coding Style		<input checked="" type="checkbox"/>		
Access Of Static Members Through Objects	AOSMTO	<input checked="" type="checkbox"/>	800	
Assignment To Formal Parameters	ATFP	<input checked="" type="checkbox"/>	802	
Complex Assignment	CA	<input checked="" type="checkbox"/>		
Don't Use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>		
Operator '?' May Not Be Used	OMNBU	<input checked="" type="checkbox"/>		
Provide Incremental In For-Statement or use w...	PIIFS	<input checked="" type="checkbox"/>		
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>		
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>		
Use 'this' Explicitly To Access Class Members	UTETACM	<input checked="" type="checkbox"/>		
<input type="checkbox"/> Critical Errors		<input checked="" type="checkbox"/>		
Avoid Hiding Inherited Attributes	AHIA	<input checked="" type="checkbox"/>		
Avoid Hiding Inherited Static Methods	AHISM	<input checked="" type="checkbox"/>		
Command Query Separation	CQS	<input checked="" type="checkbox"/>		
Hiding Of Names	HON	<input checked="" type="checkbox"/>		
Inaccessible Constructor Or Method Matches	ICCOMM	<input checked="" type="checkbox"/>		
Multiple Visible Declarations With Same Name	MVDWSN	<input checked="" type="checkbox"/>		
Overriding a Non-Abstract Method With an Ab...	ONAMWAM	<input checked="" type="checkbox"/>		
Overriding a Private Method	OPM	<input checked="" type="checkbox"/>		

Select all Unselect all Set defaults Save set As... Load set...

AOSMTO - Access Of Static Members Through Objects

Static members should be referenced through class names rather than through objects

804

Start Cancel Help

FIG. 8A

806

Title	Abbreviation	Chosen
Complex Assignment	CA	<input checked="" type="checkbox"/>
Don't Use the Negation Operator Frequently	DUNOF	<input checked="" type="checkbox"/>
Operator '?' May Not Be Used	OMNBU	<input checked="" type="checkbox"/>
Provide Incremental In For-Statement or use w...	PILFS	<input checked="" type="checkbox"/>
Replacement For Demand Imports	RFDI	<input checked="" type="checkbox"/>
Use Abbreviated Assignment Operator	UAAO	<input checked="" type="checkbox"/>

Severity: Normal

Select all | Unselect all | Set defaults | Save set As... | Load set...

CA - Complex Assignment

808

Checks for the occurrence of multiple assignments and assignments to variables within the same expression. Too complex assignments should be avoided since they decrease program readability.

Wrong

```
// compound assignment
i *= j++;
k = j = 10;
l = j += 15;
// nested assignment
i = j++ + 20;
i = (j = 25) + 30;
```

810

Tip: Break statement into several ones.

Start | Cancel | Help

FIG. 8B

806

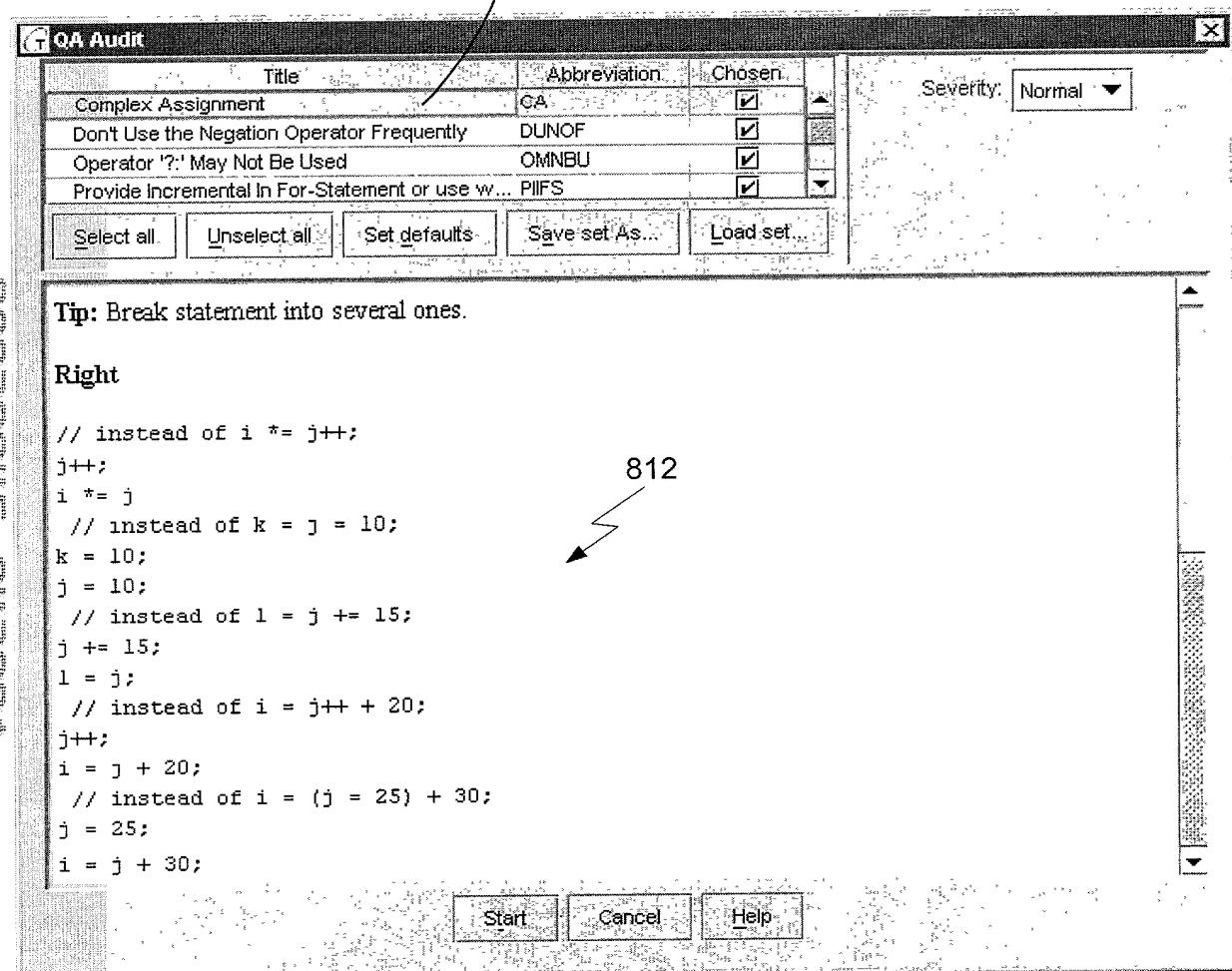


FIG. 8C

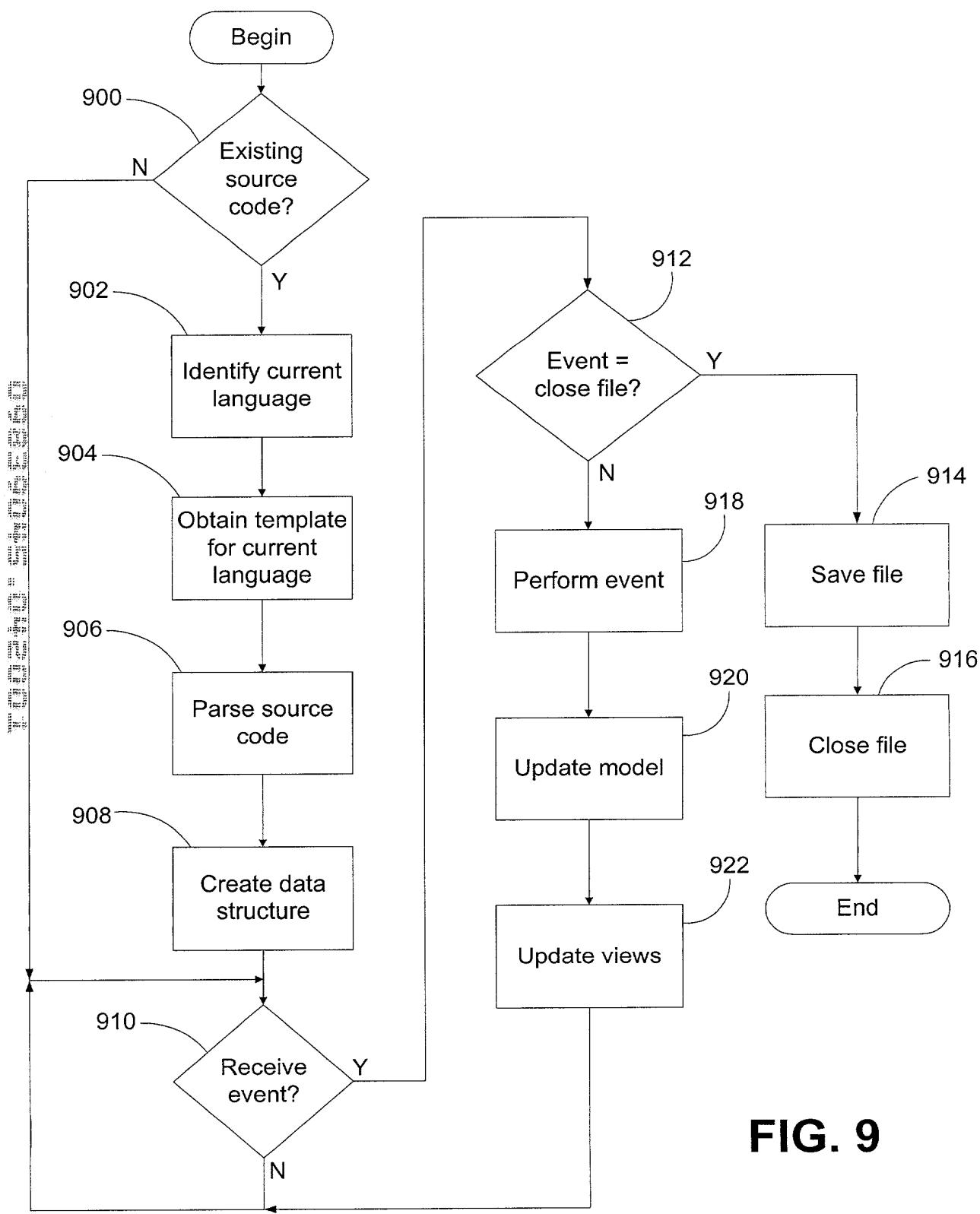


FIG. 9

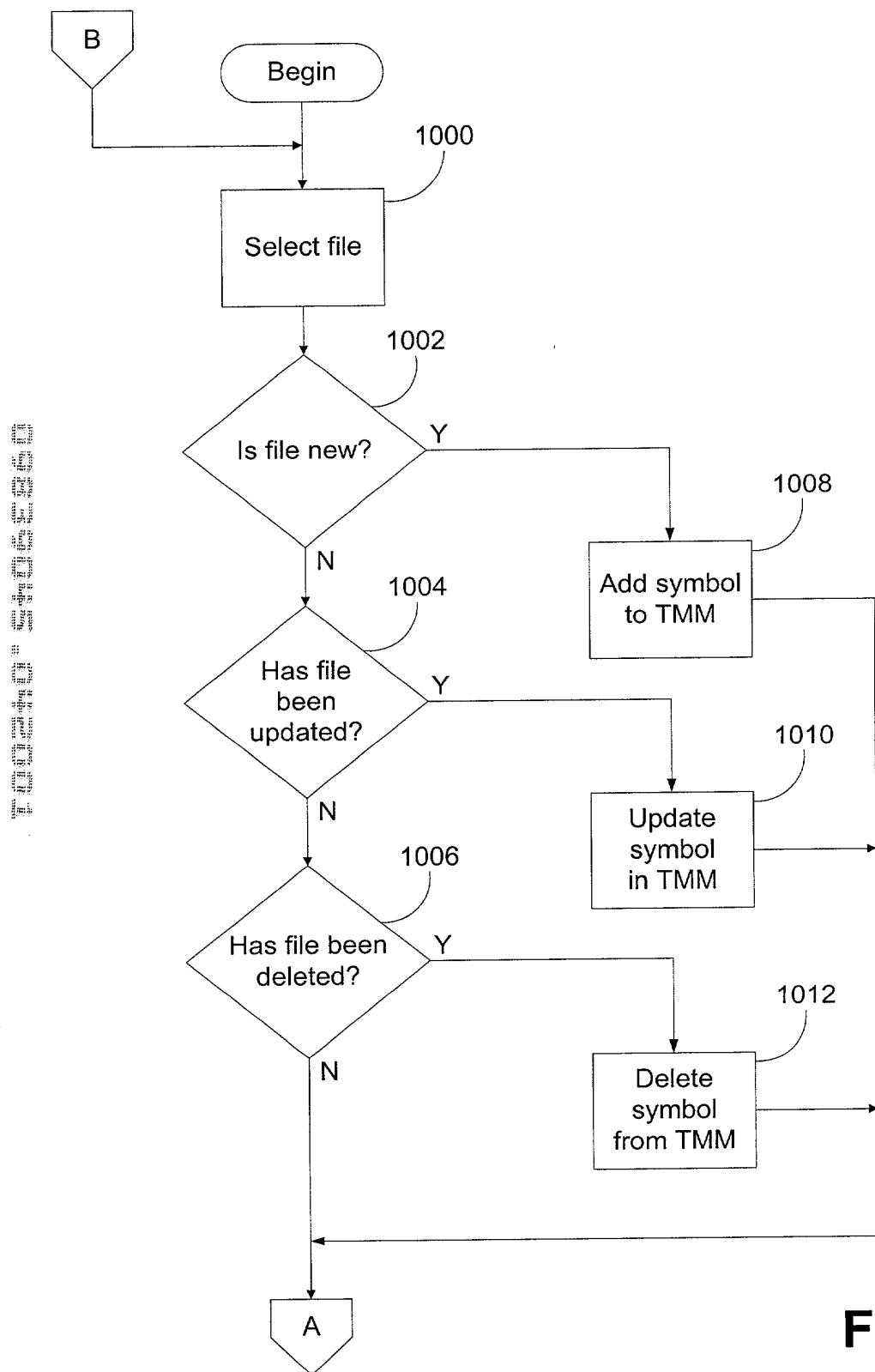


FIG. 10A

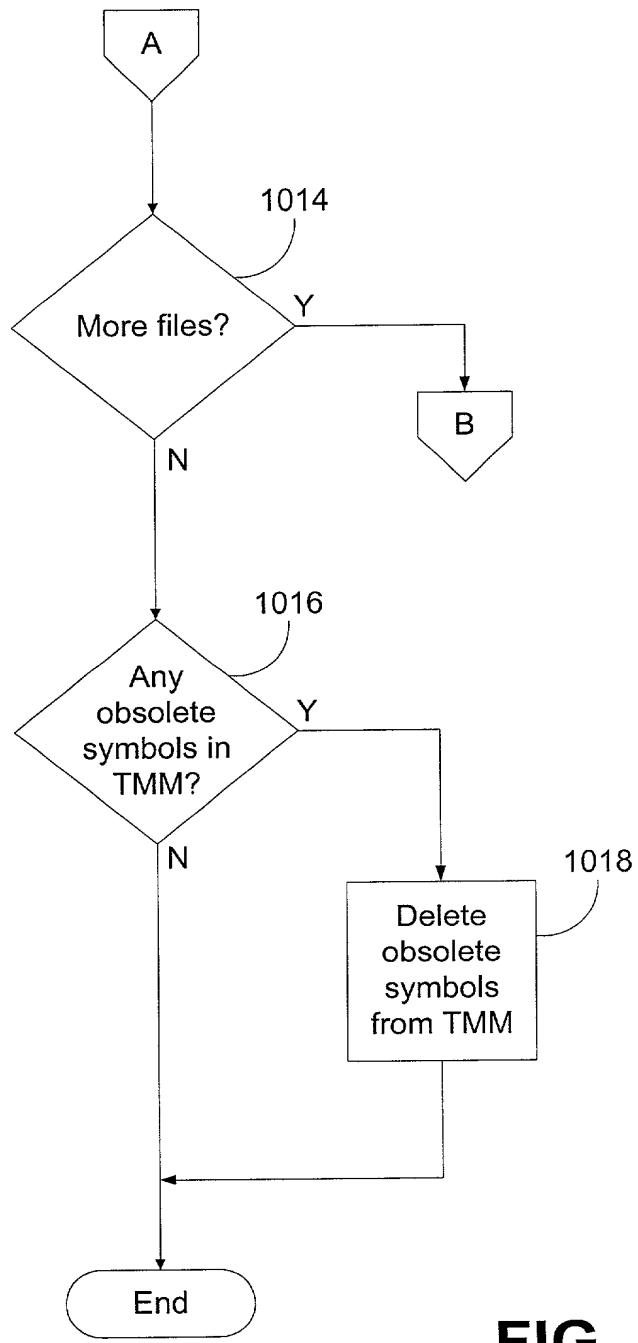


FIG. 10B

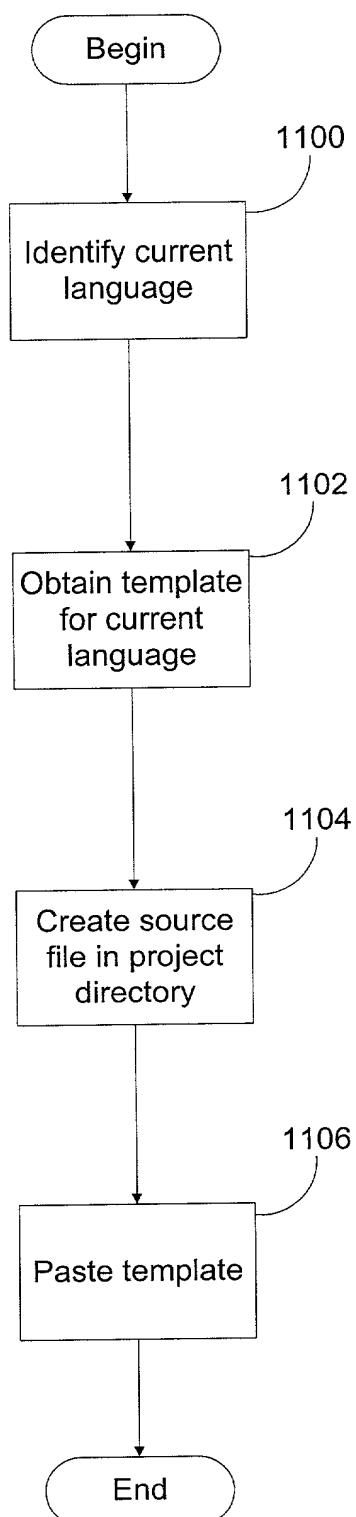


FIG. 11

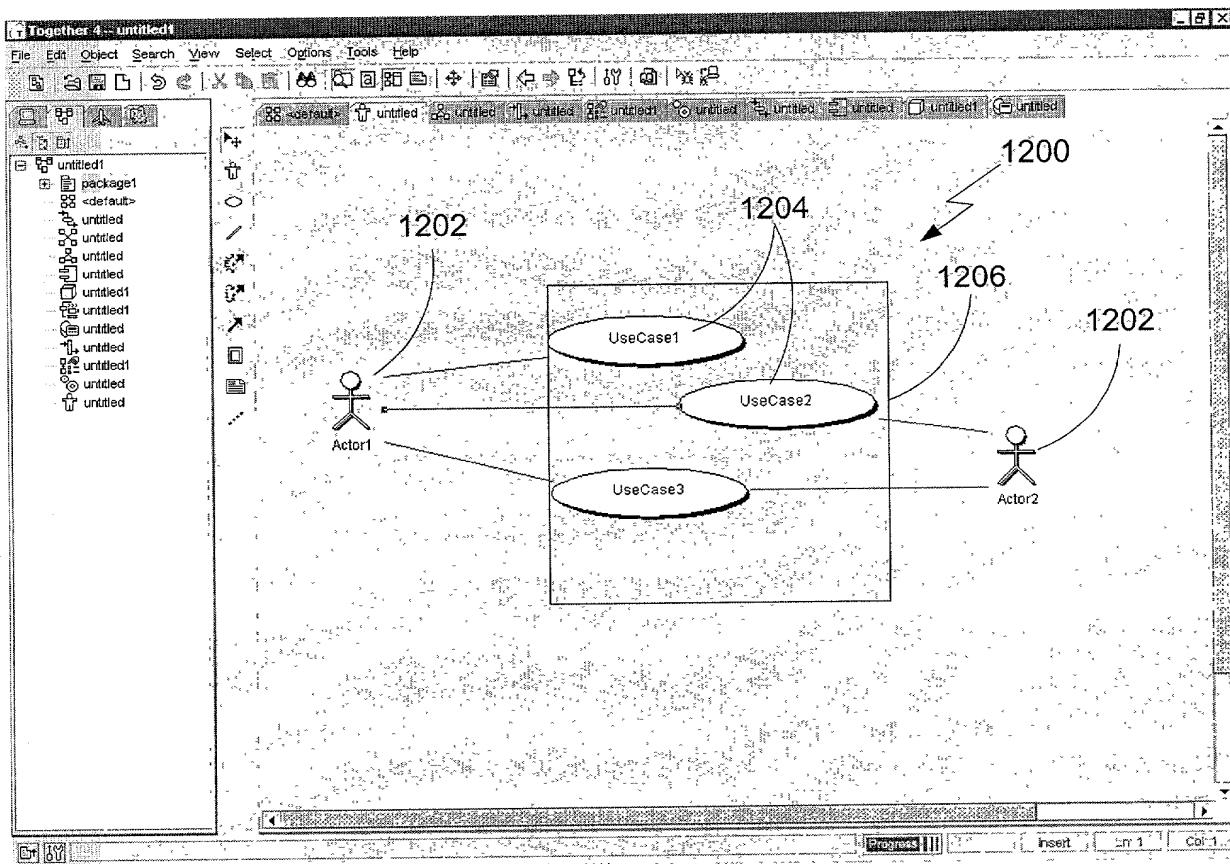


FIG. 12

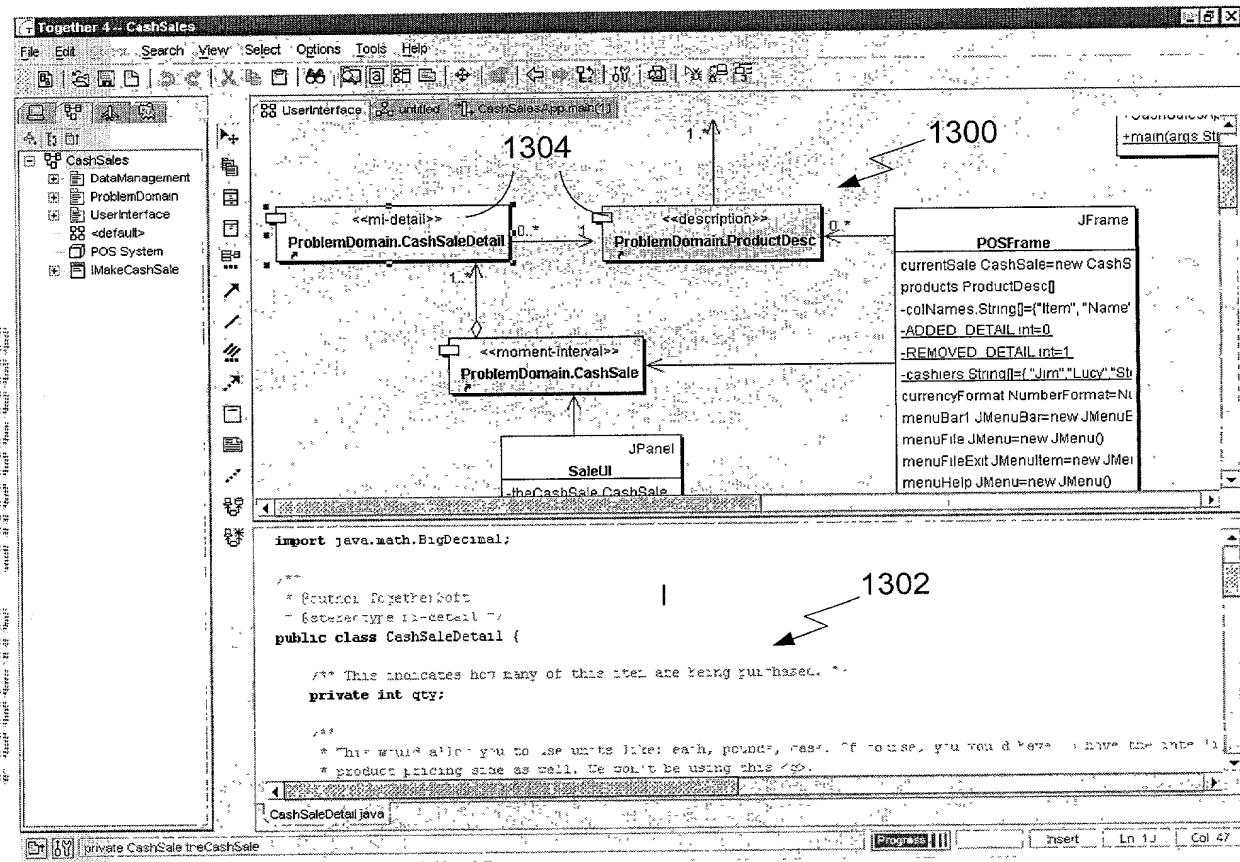


FIG. 13

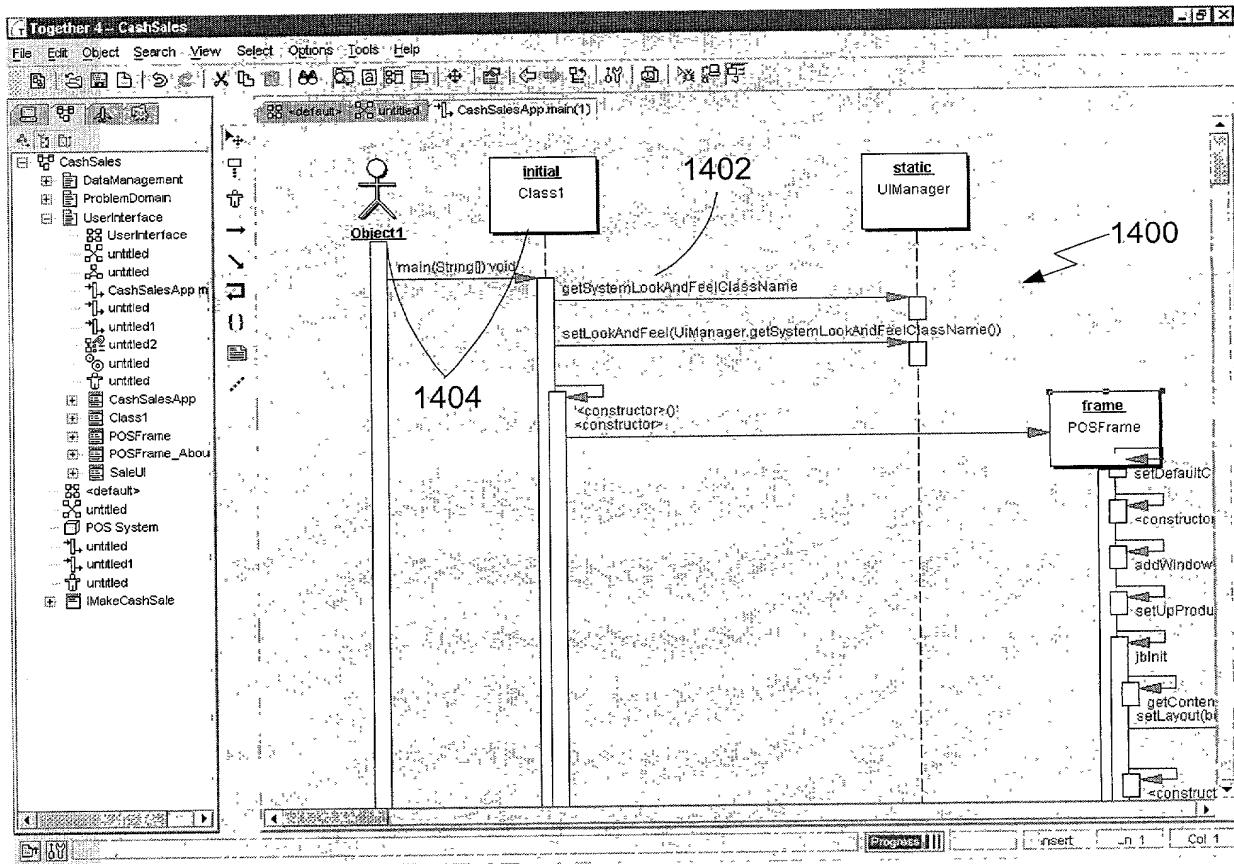


FIG. 14

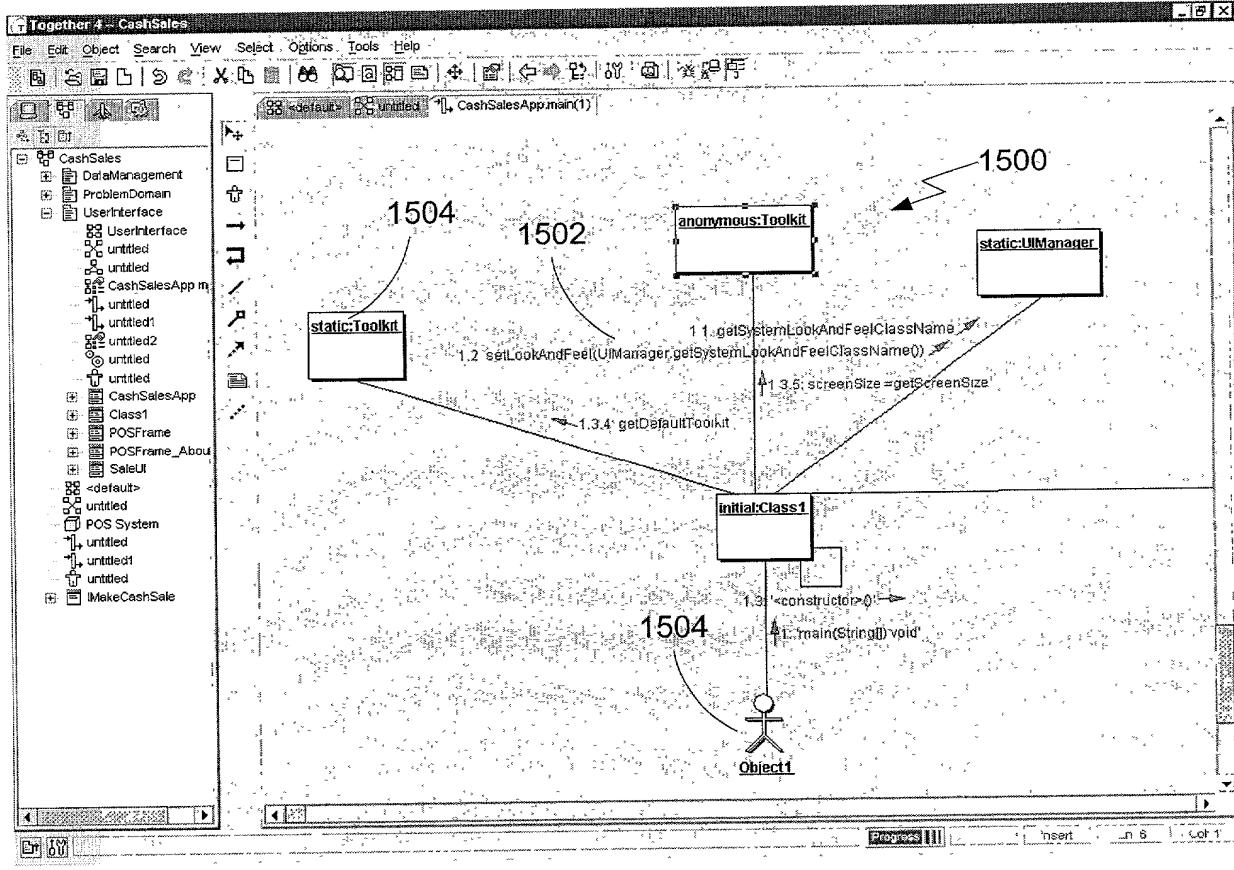


FIG. 15

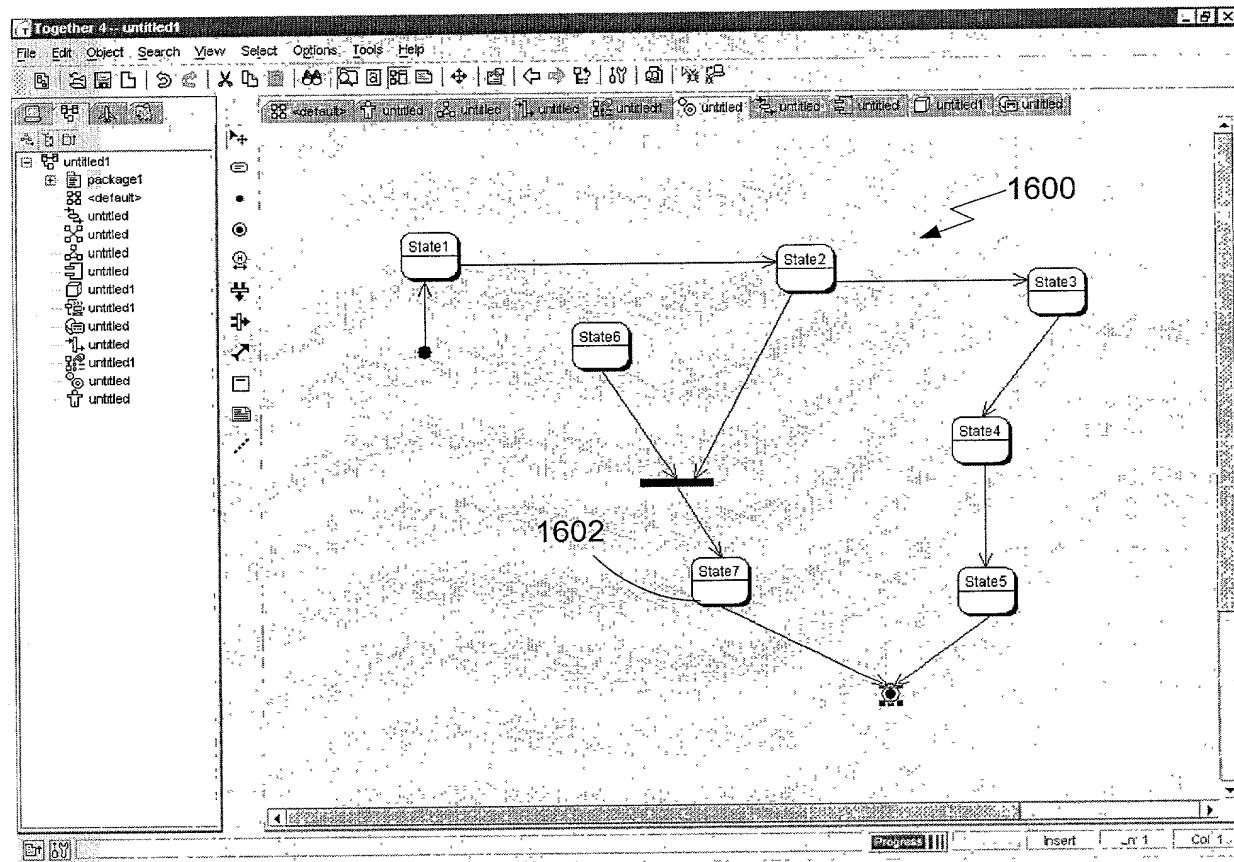


FIG. 16

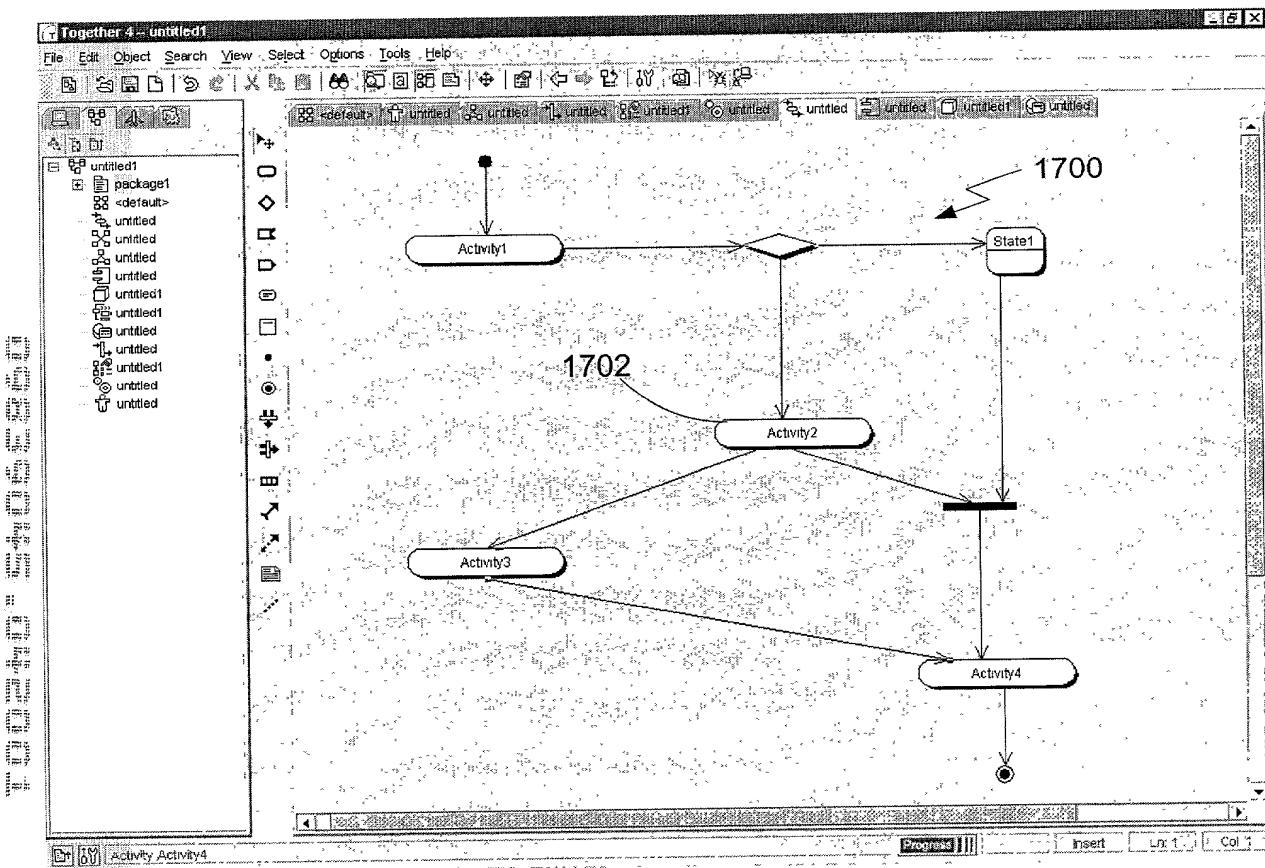


FIG. 17

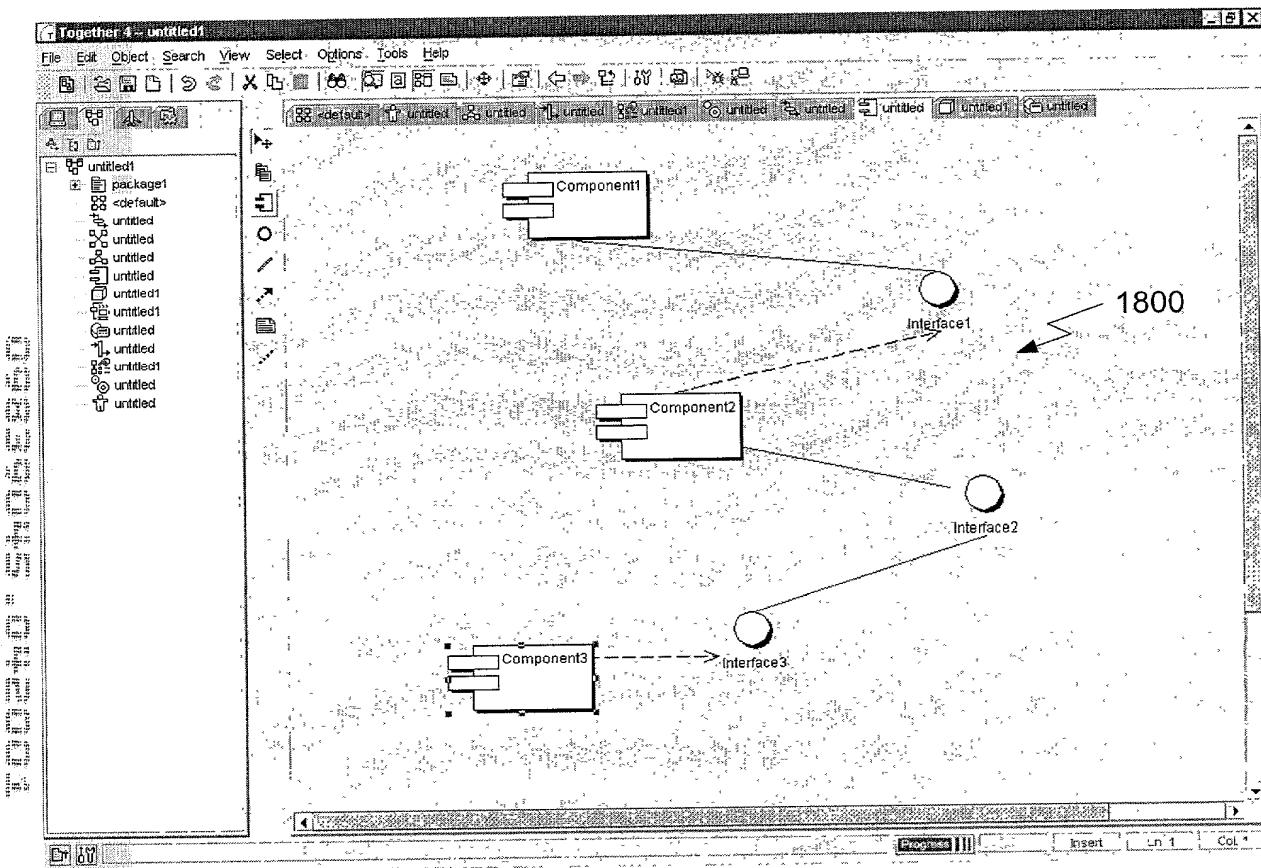


FIG. 18

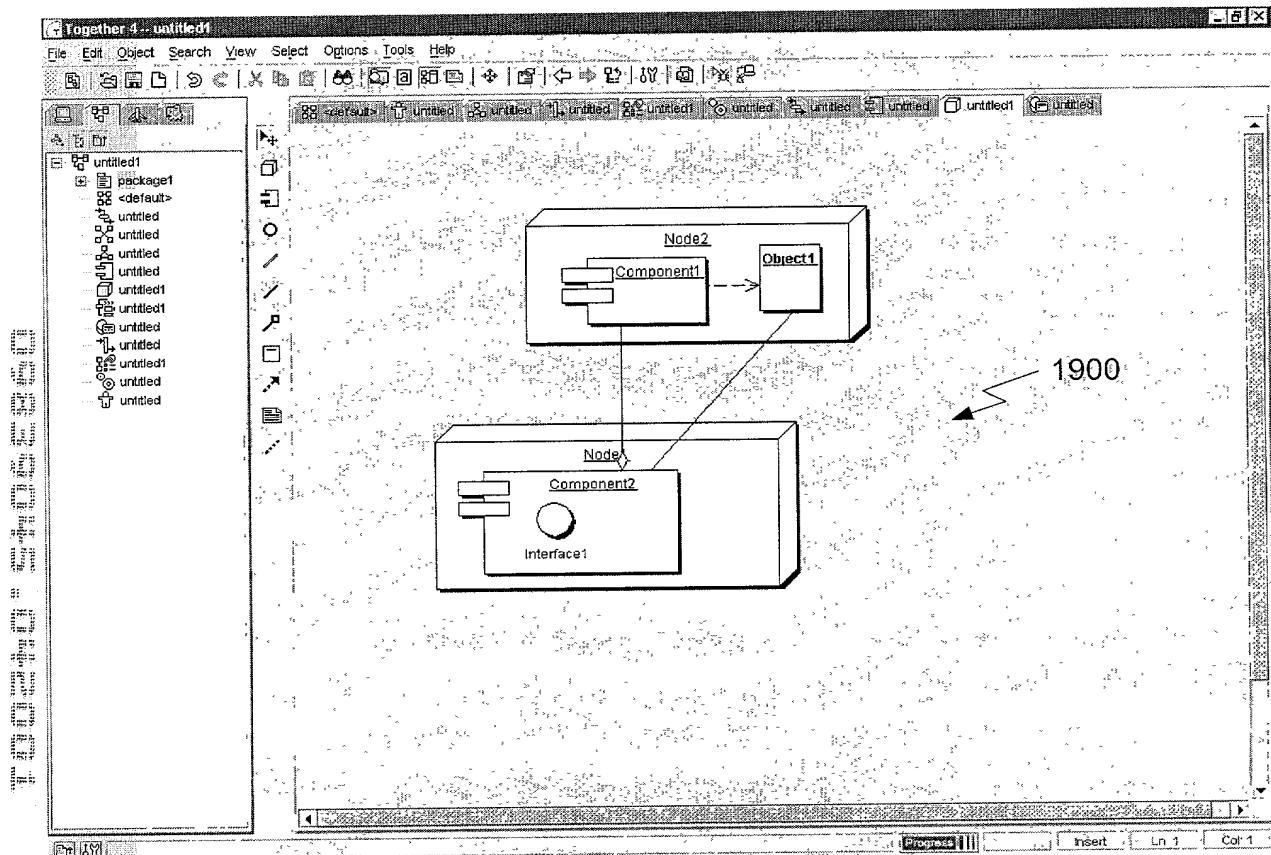


FIG. 19

FIG. 20

2000
2006
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2030

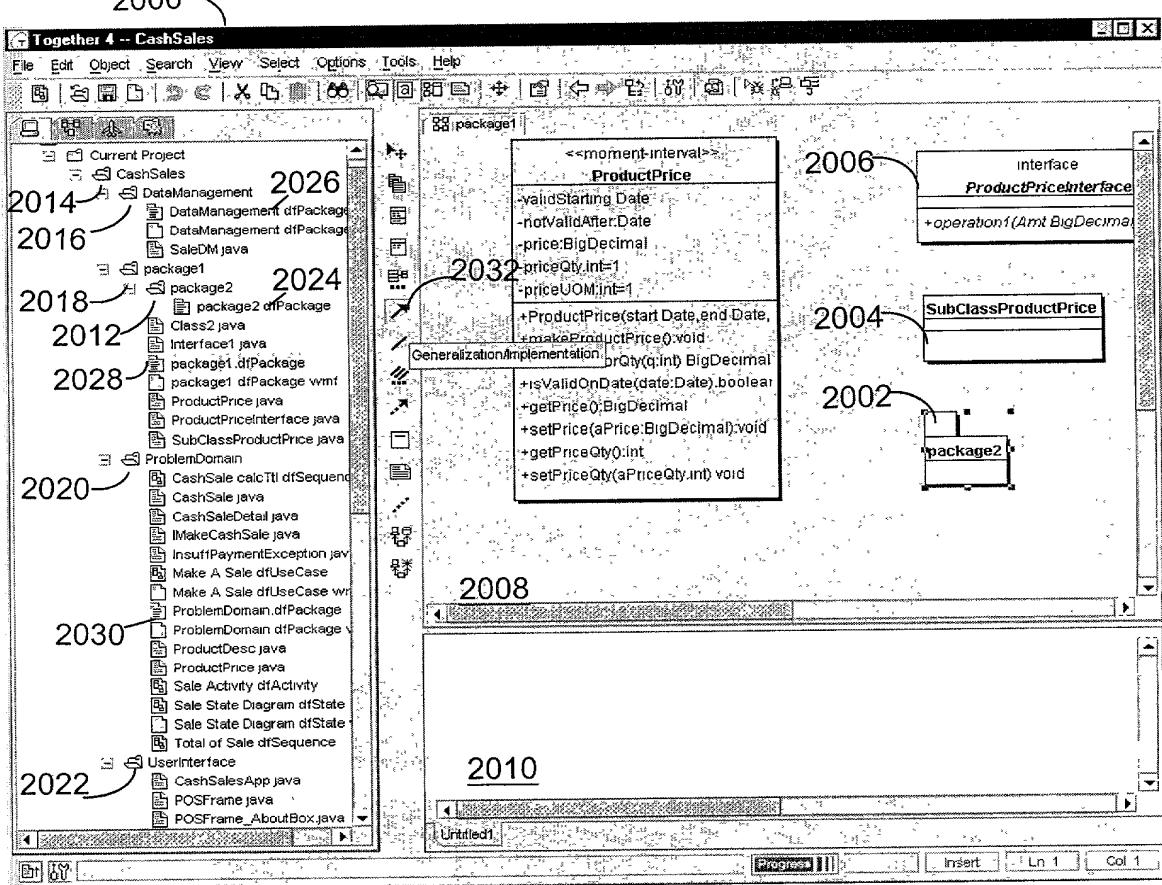


FIG. 21

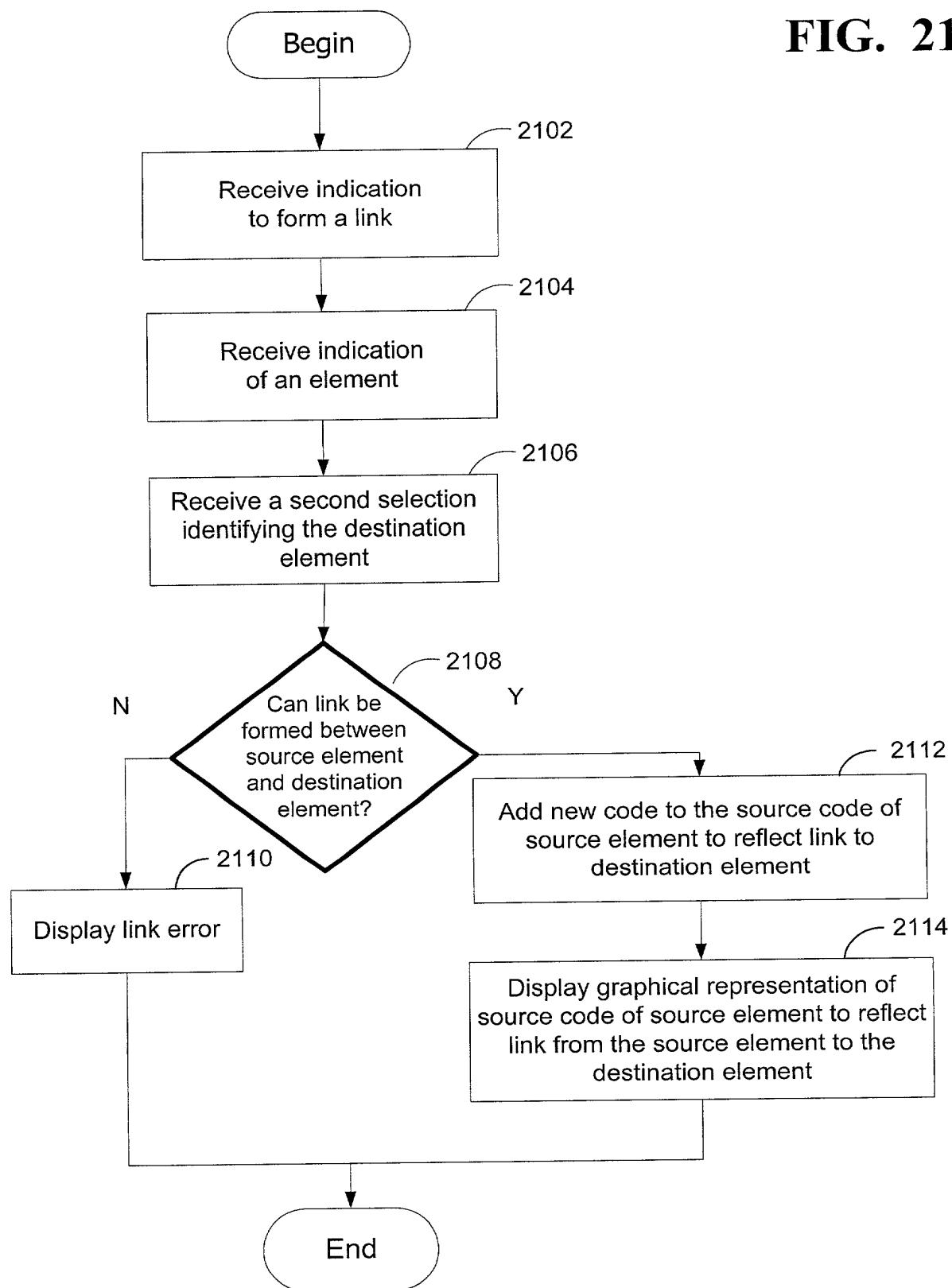


FIG. 22

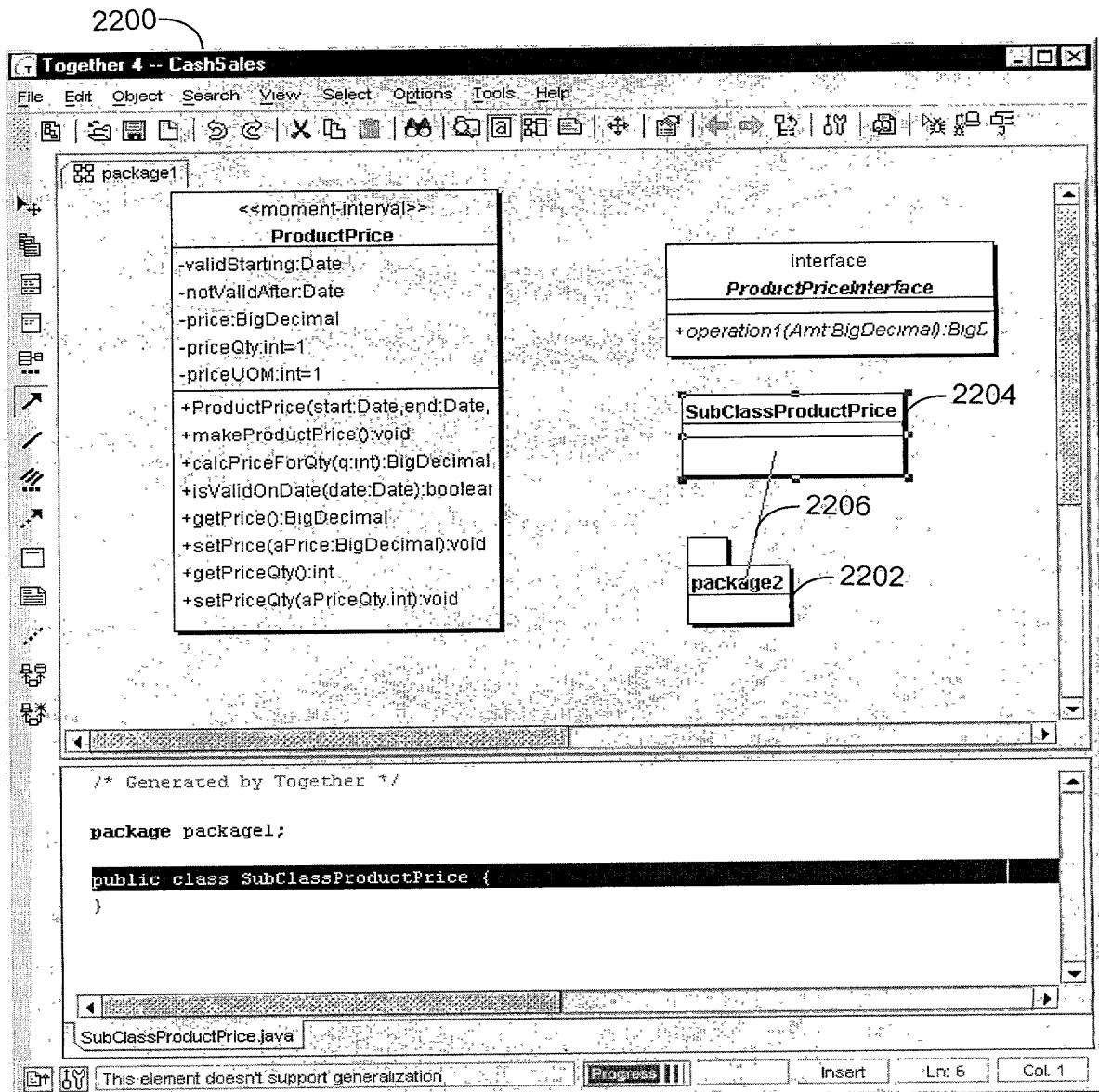


FIG. 23

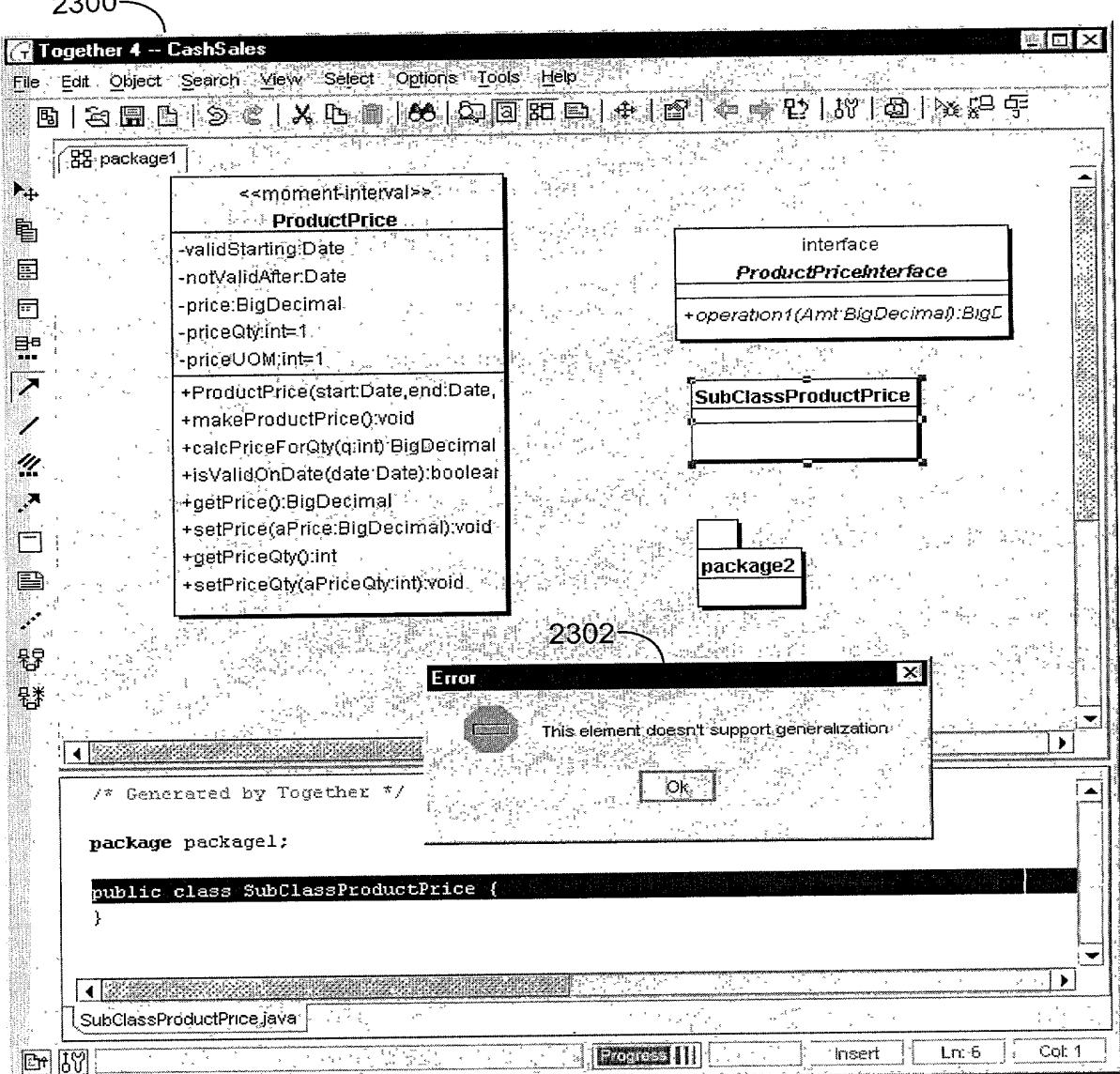


FIG. 24

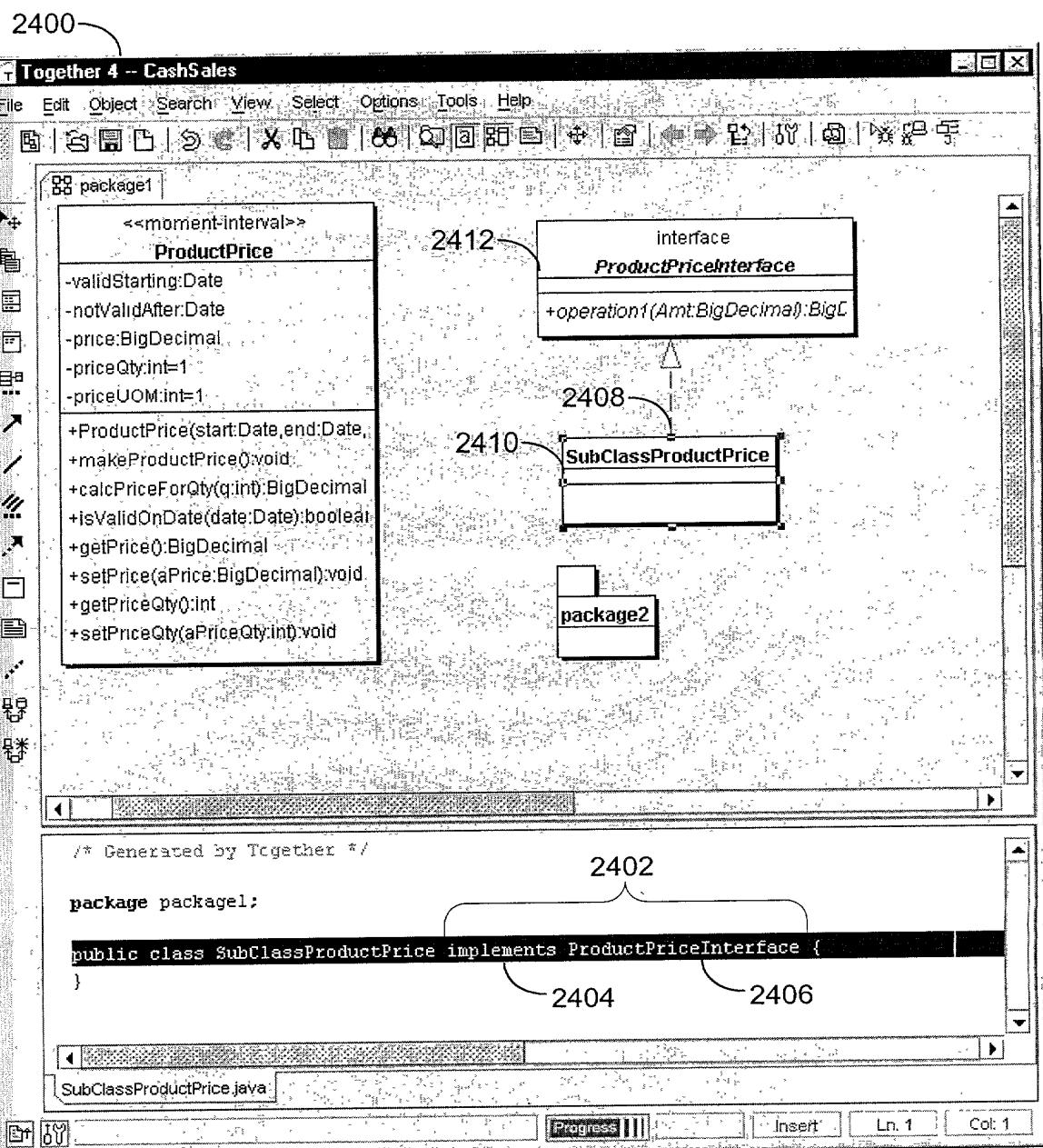


FIG. 25

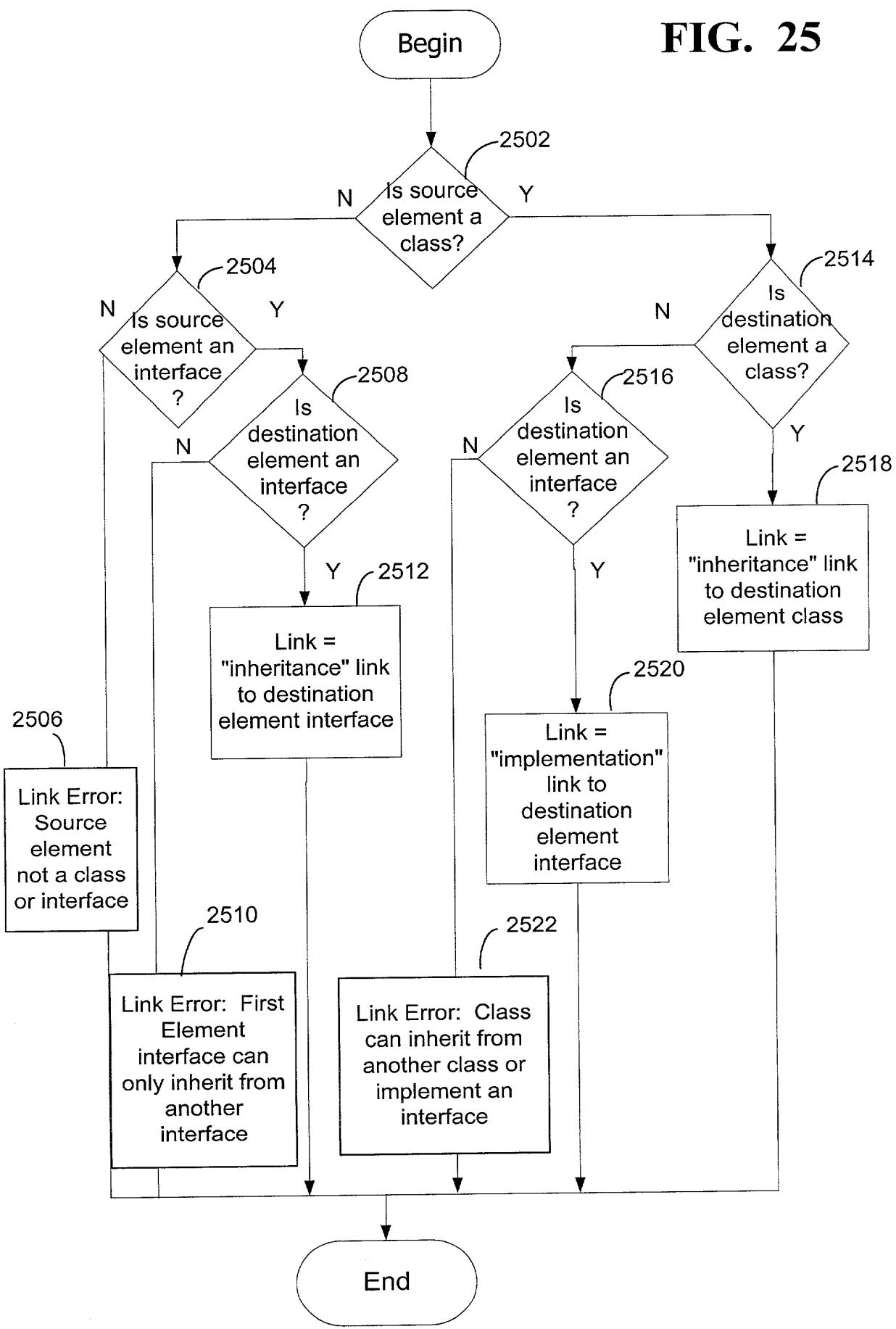


FIG. 26

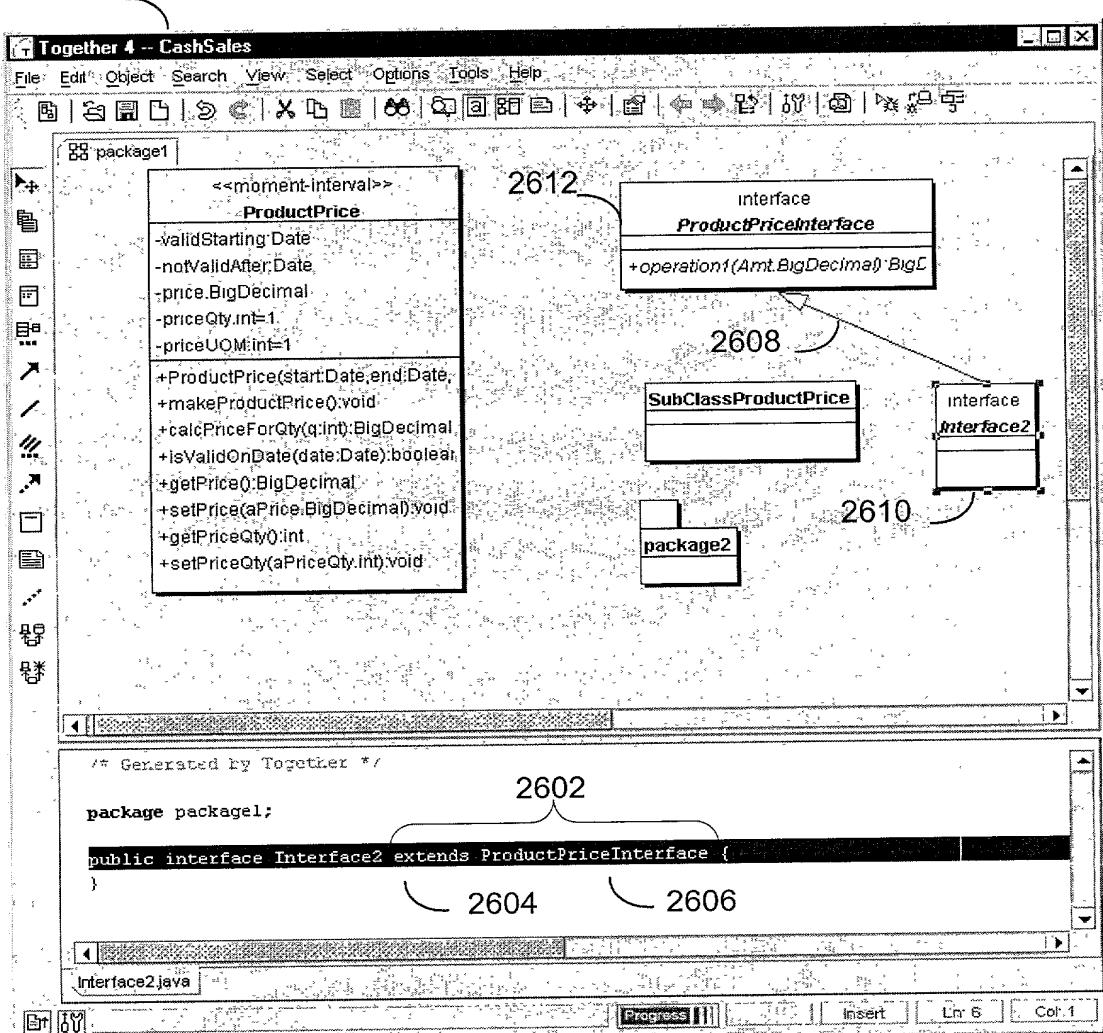


FIG. 27

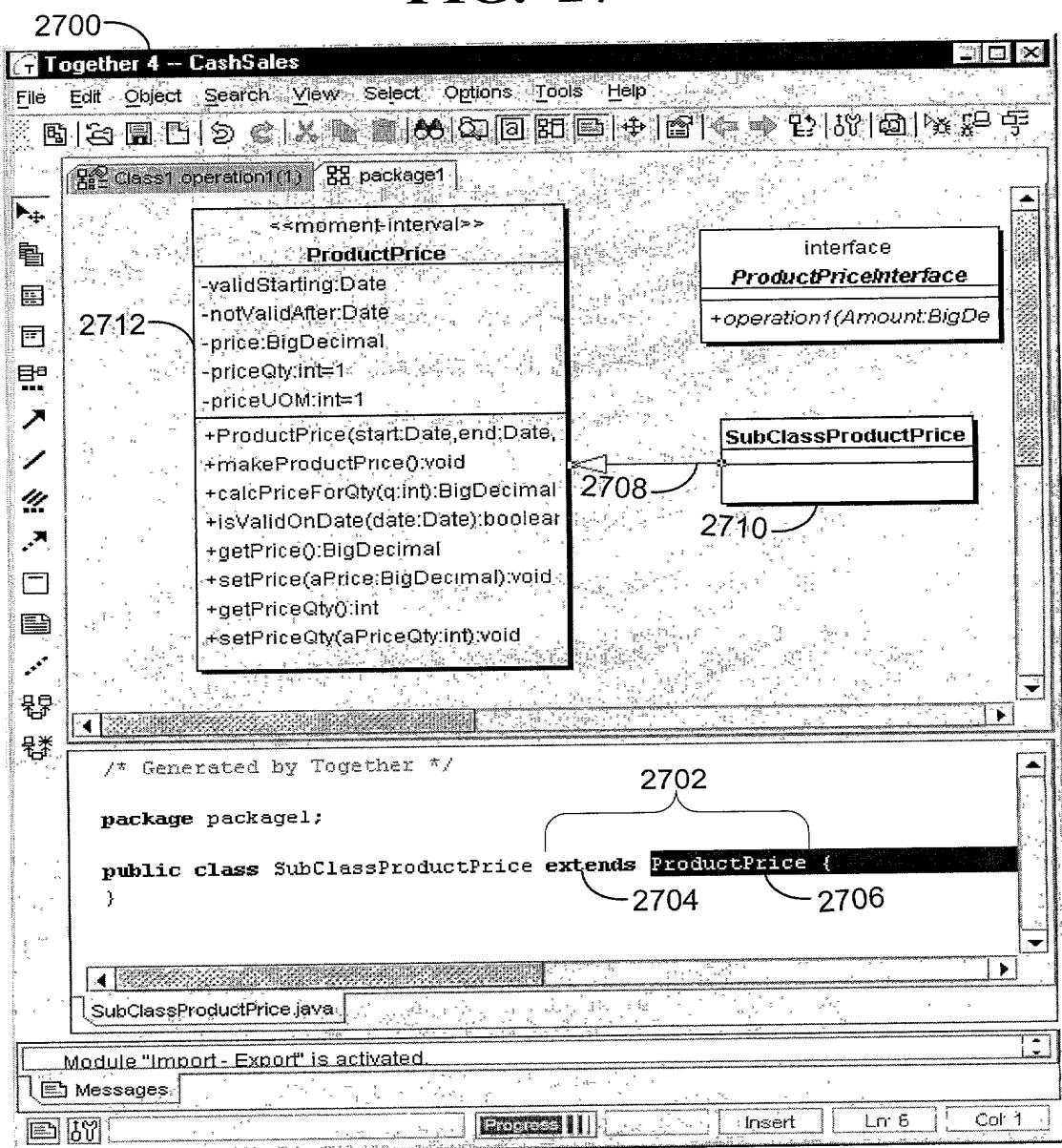


FIG. 28

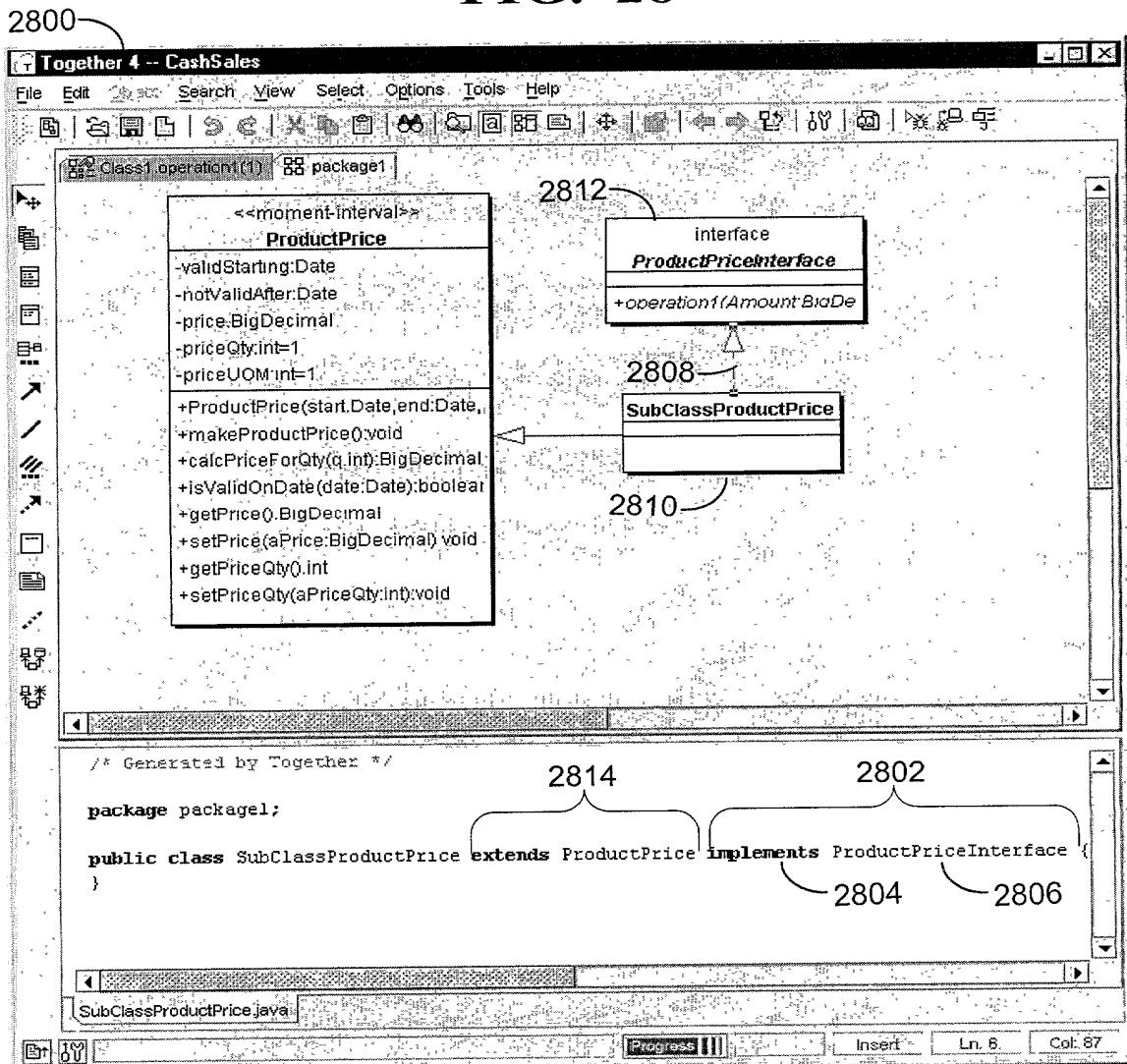


FIG. 29

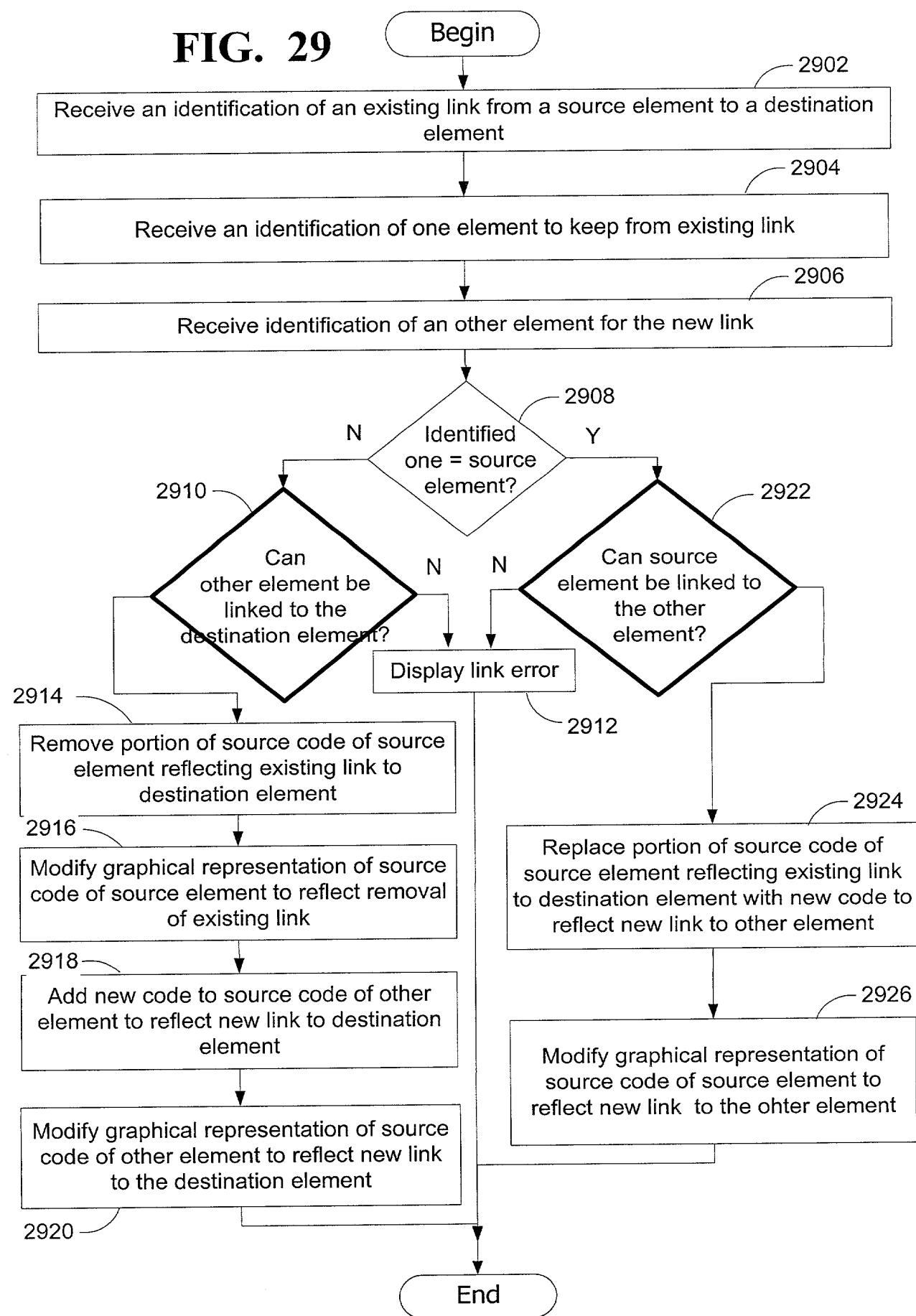


FIG. 30

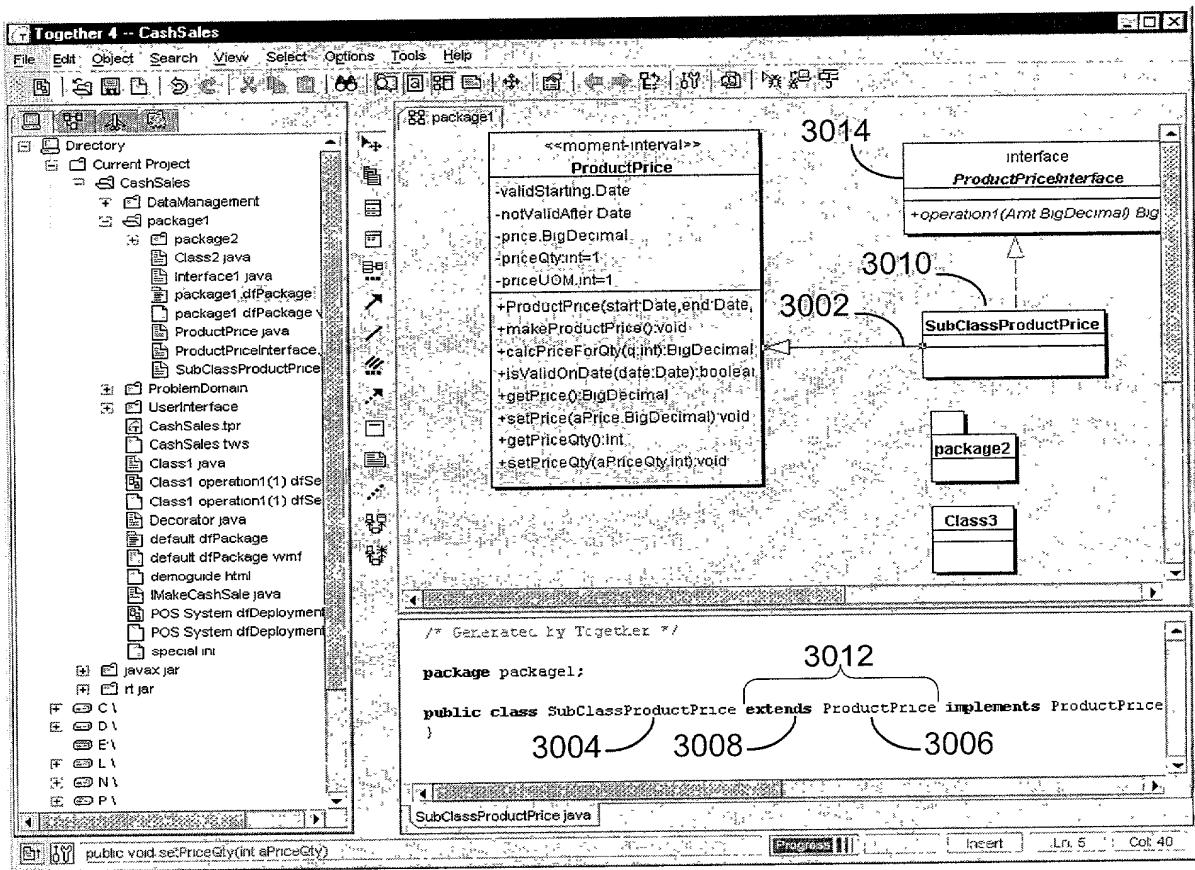
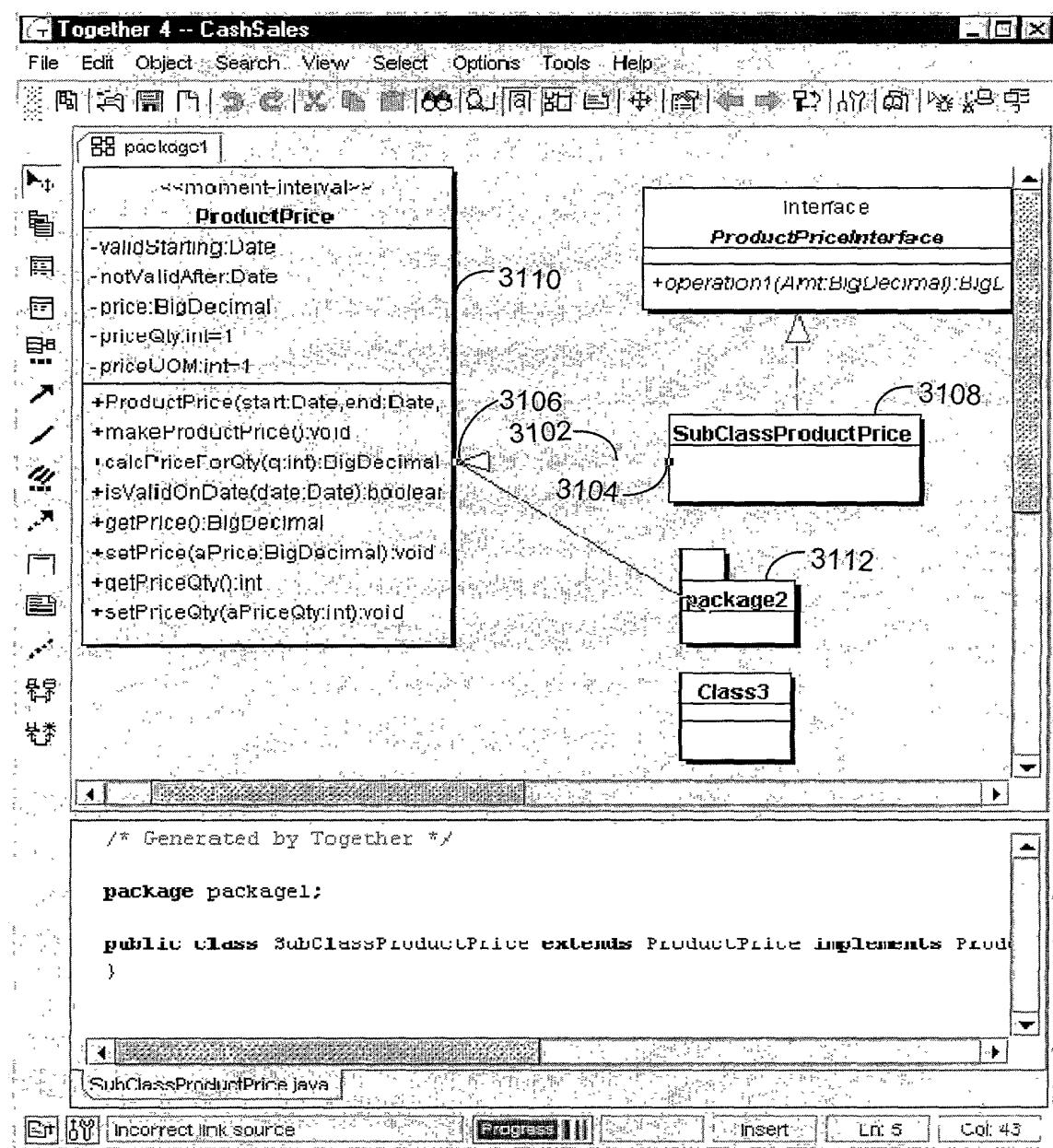


FIG. 31

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3100

3200

FIG. 32

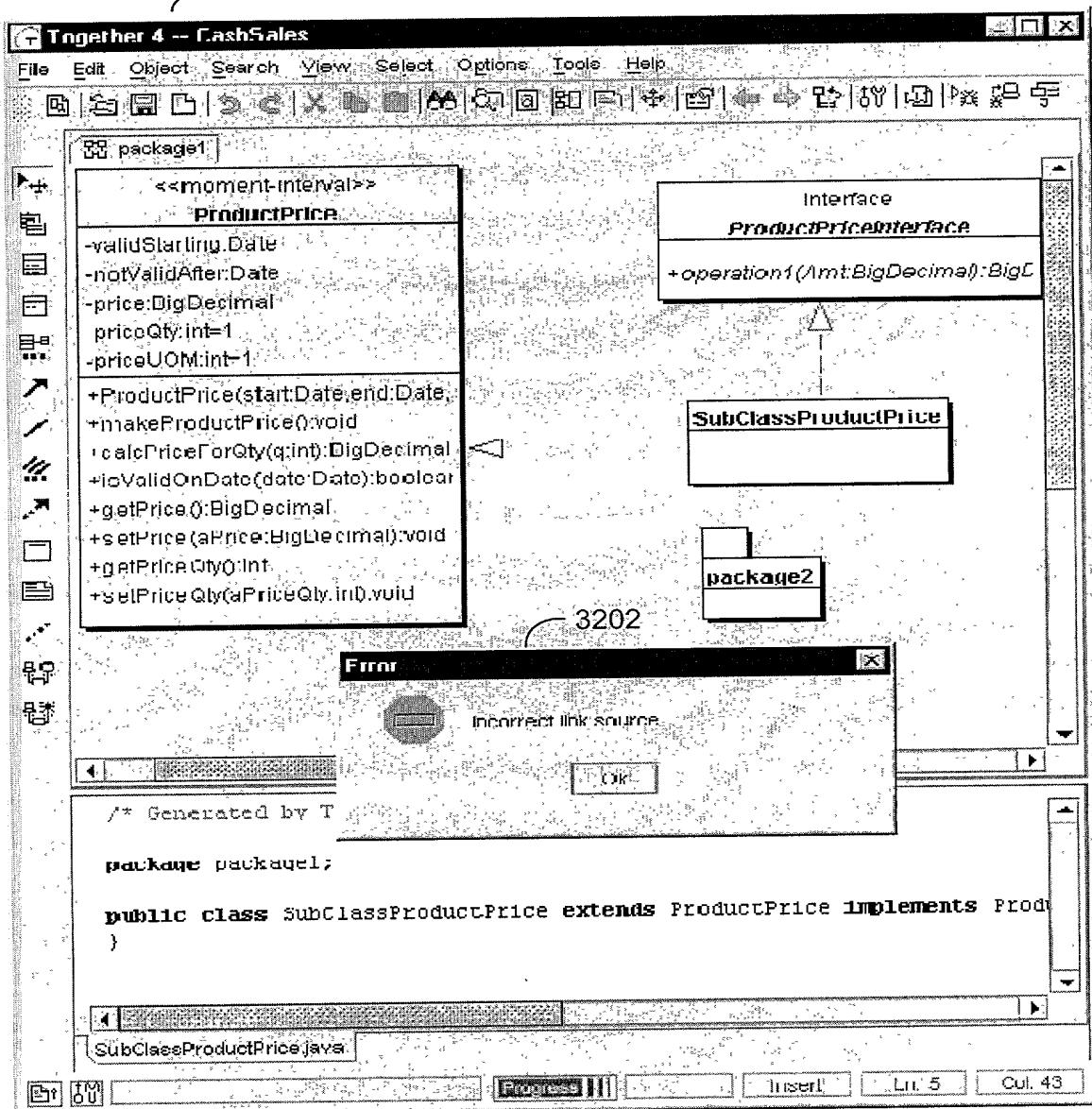


FIG. 33

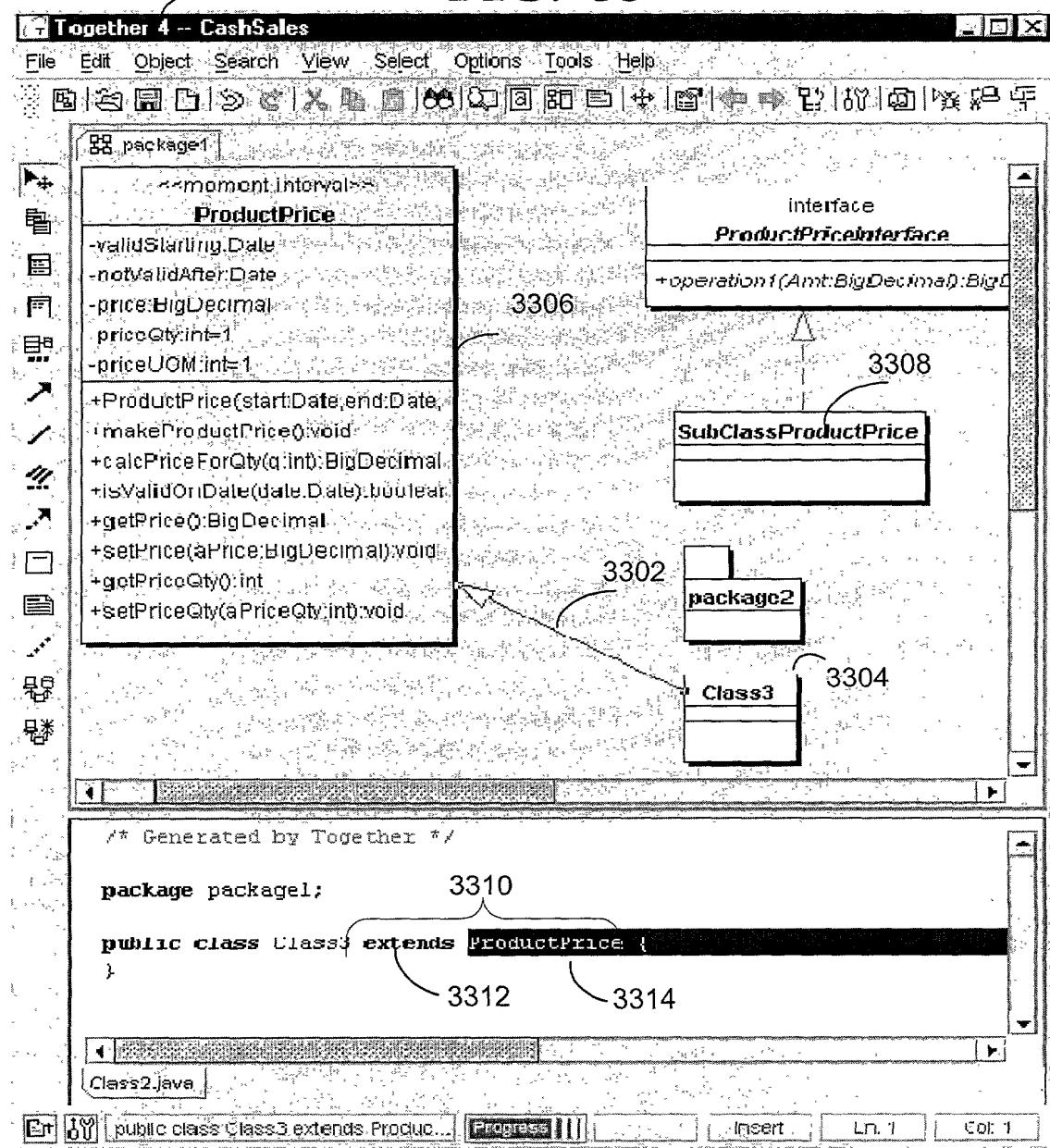


FIG. 34

3400

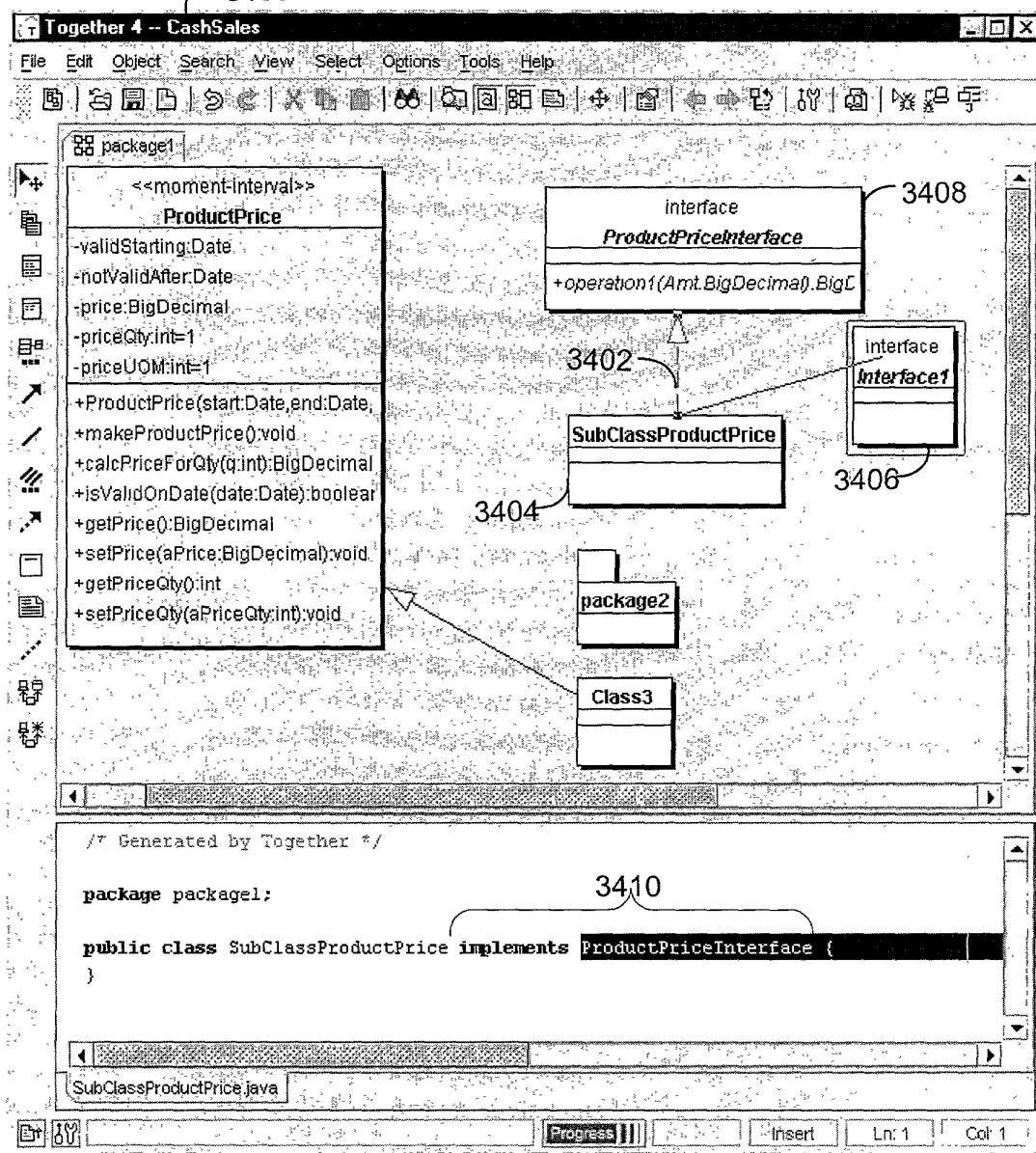


FIG. 35

3500

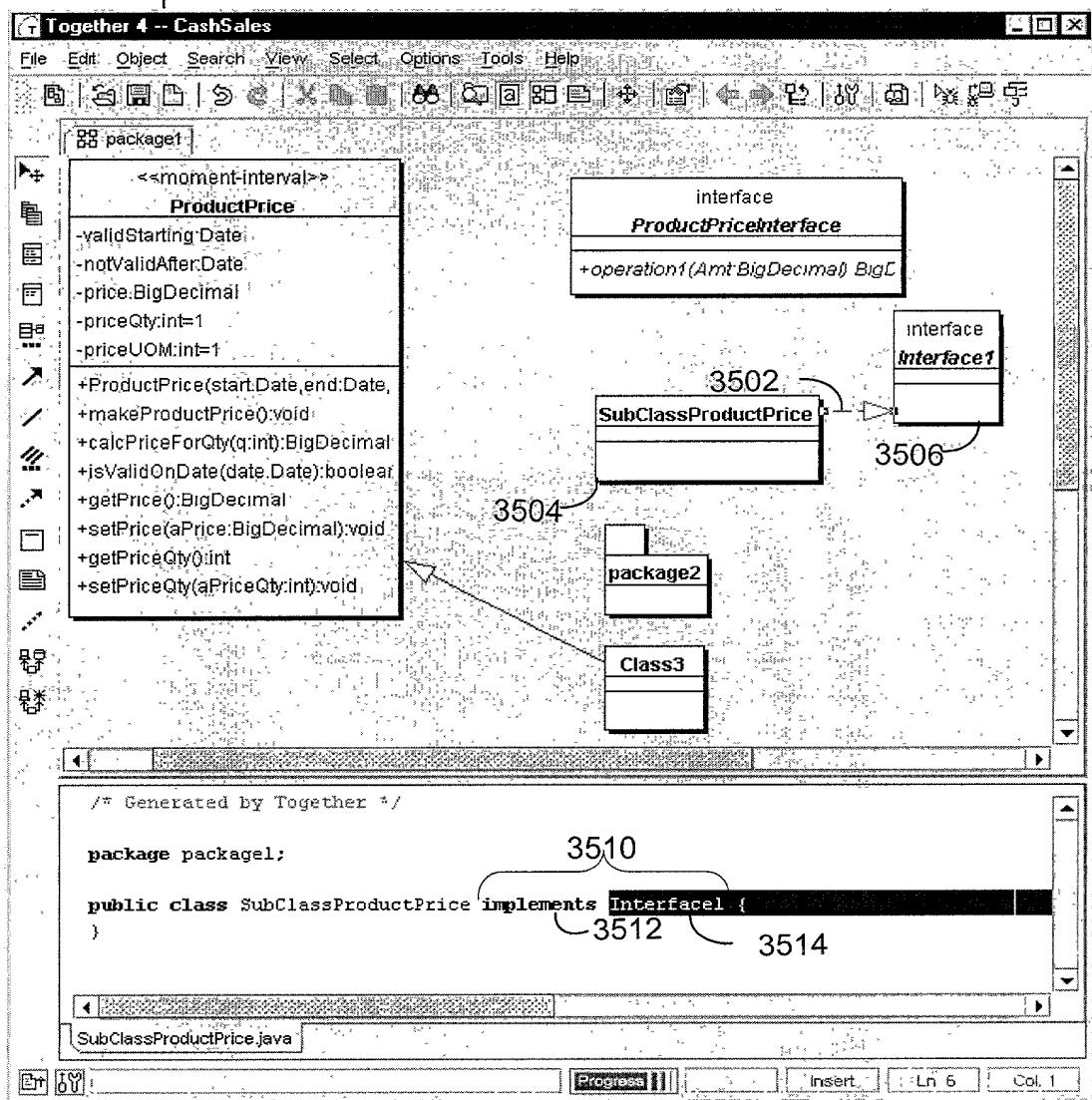


FIG. 36

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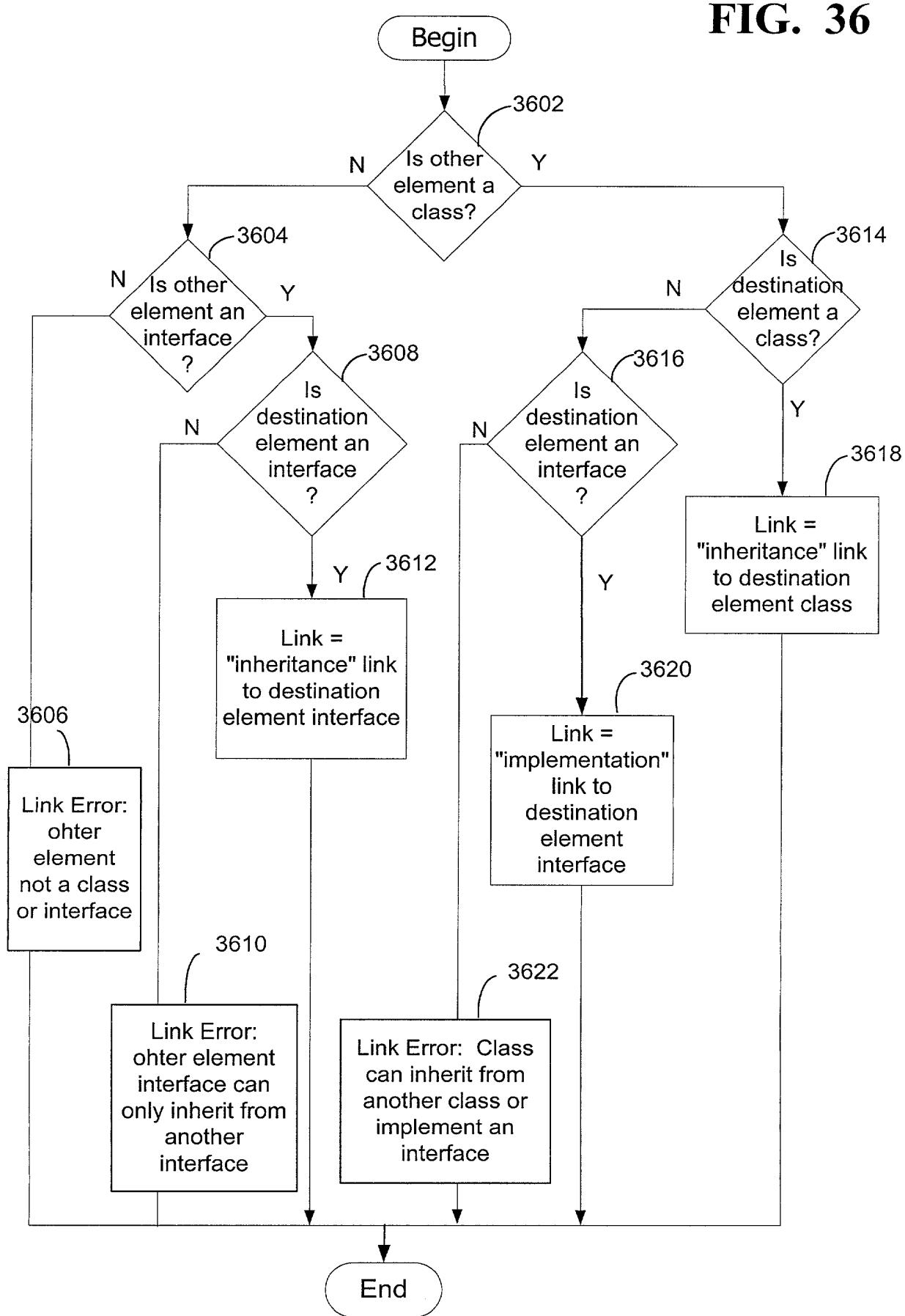


FIG. 37

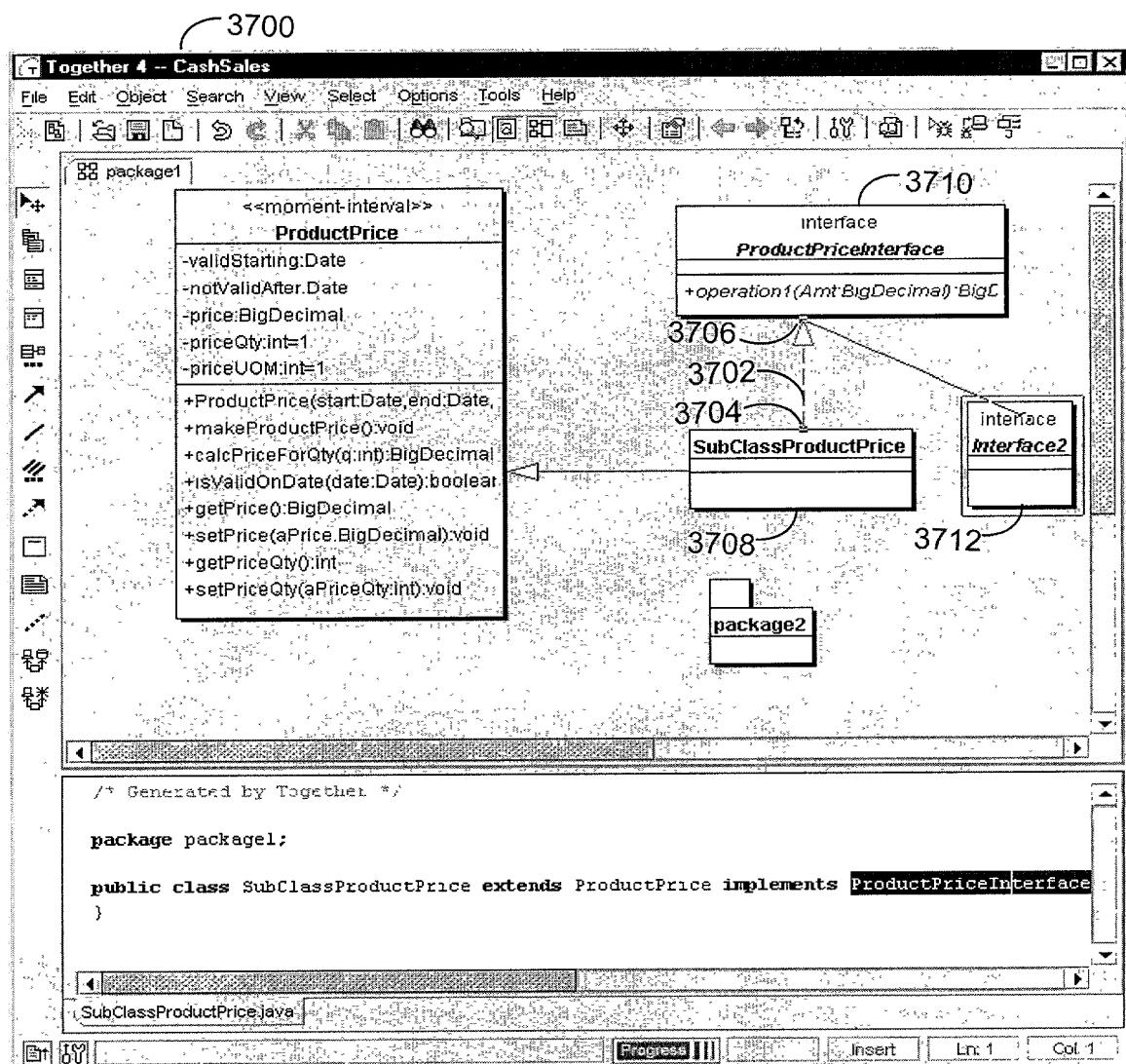


FIG. 38

3800

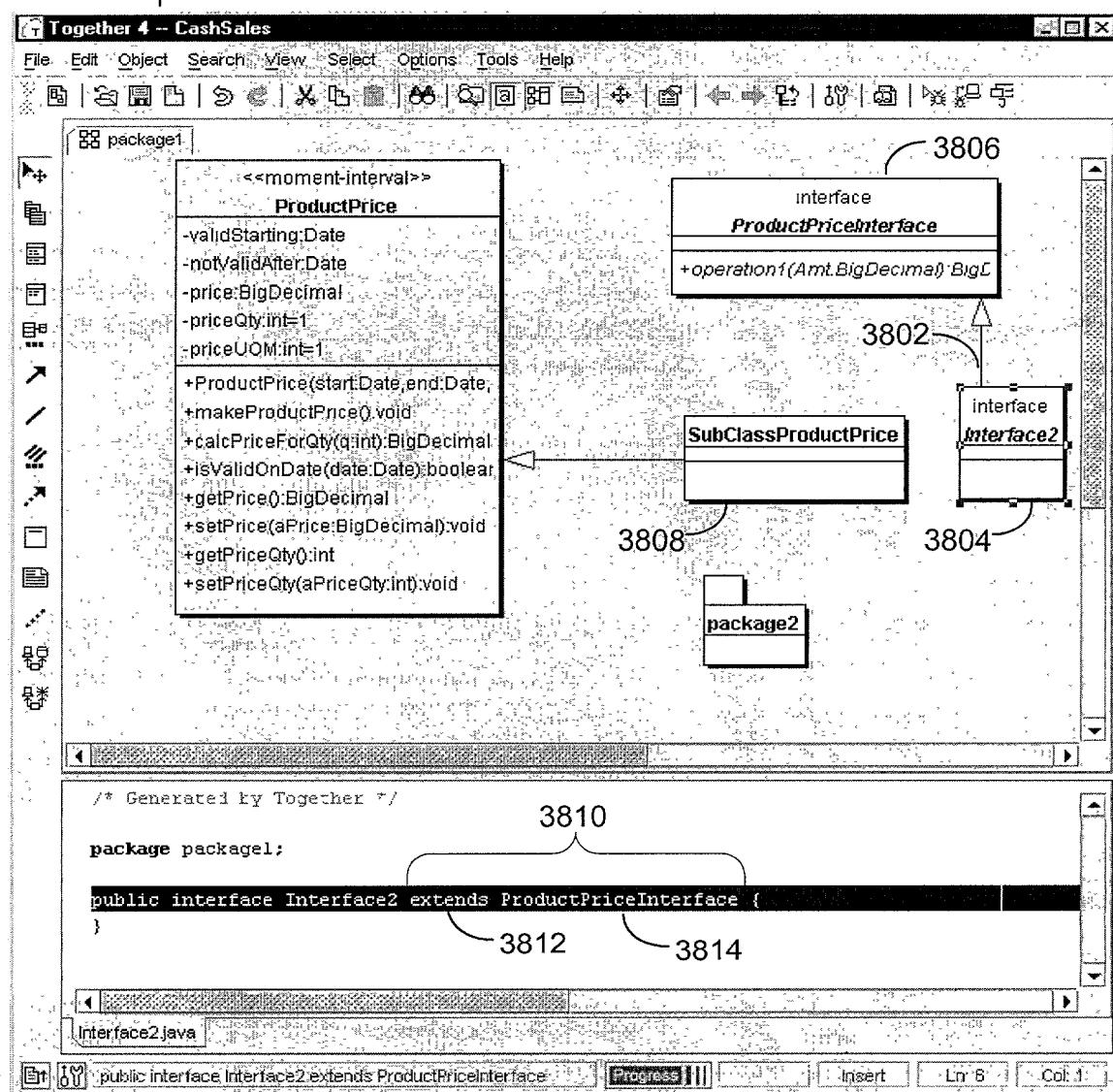
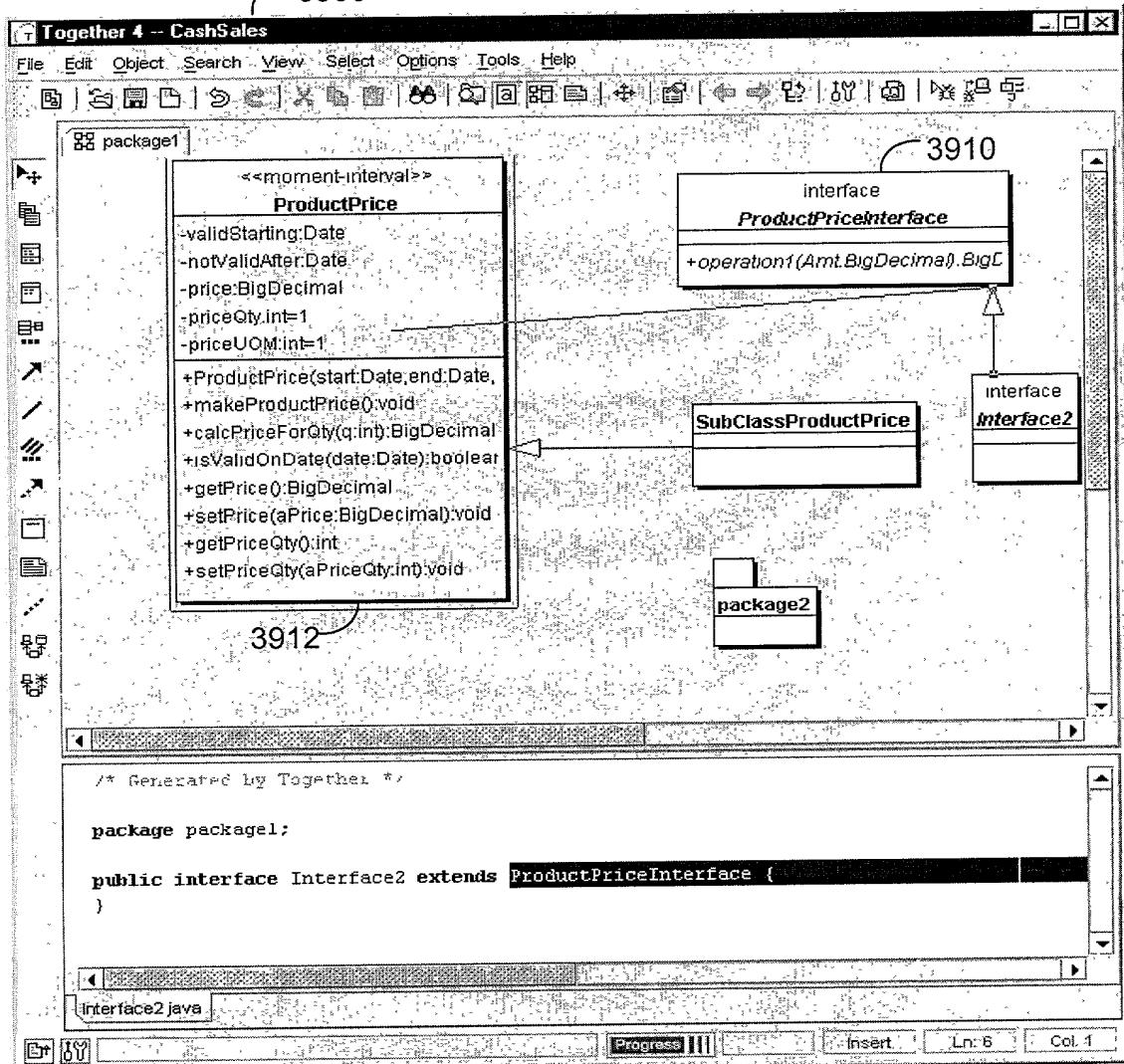


FIG. 39

3900



3910

3912

FIG. 40

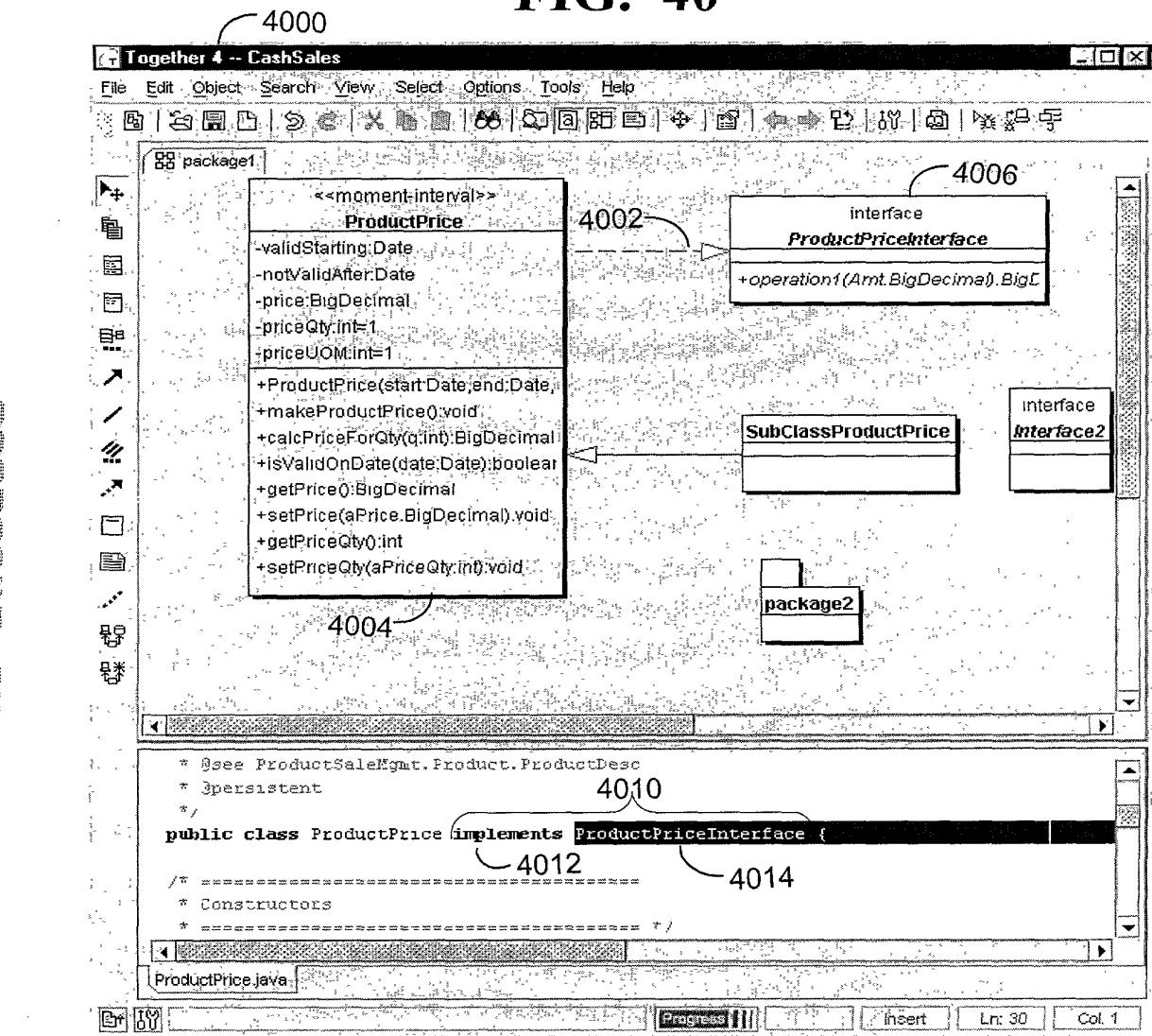


FIG. 41

Source element is a class or interface

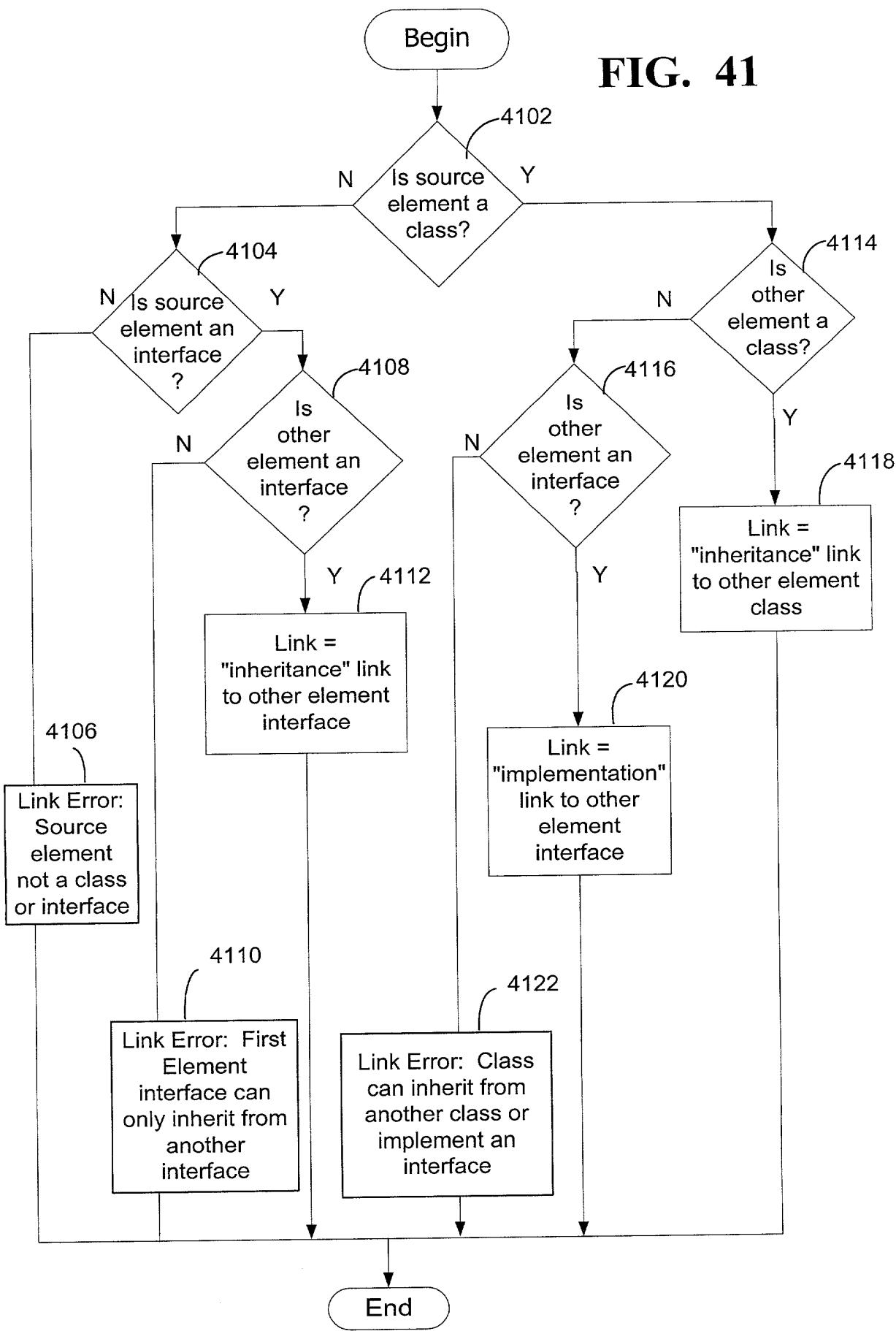


FIG. 42

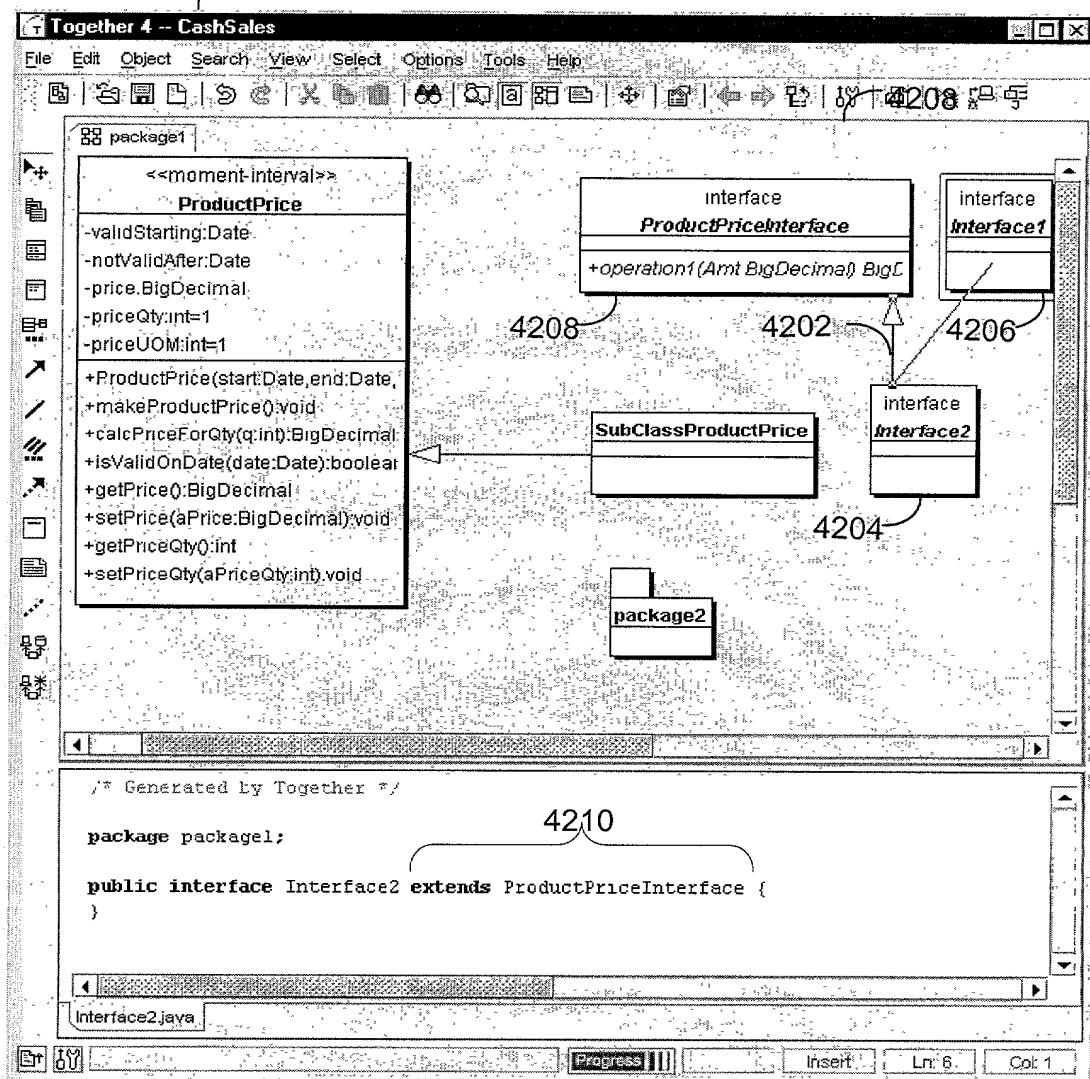


FIG. 43

-4300

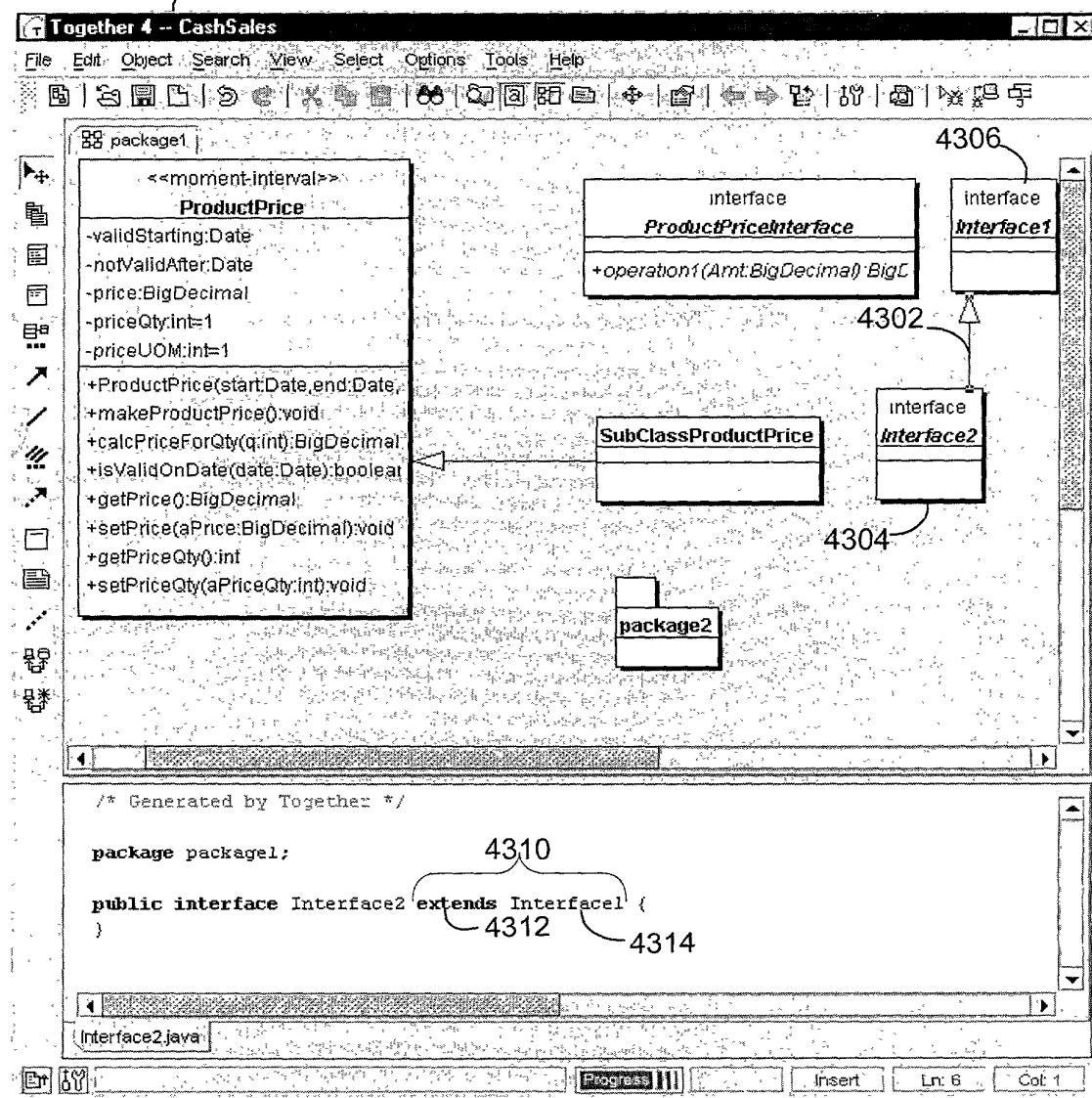


FIG. 44

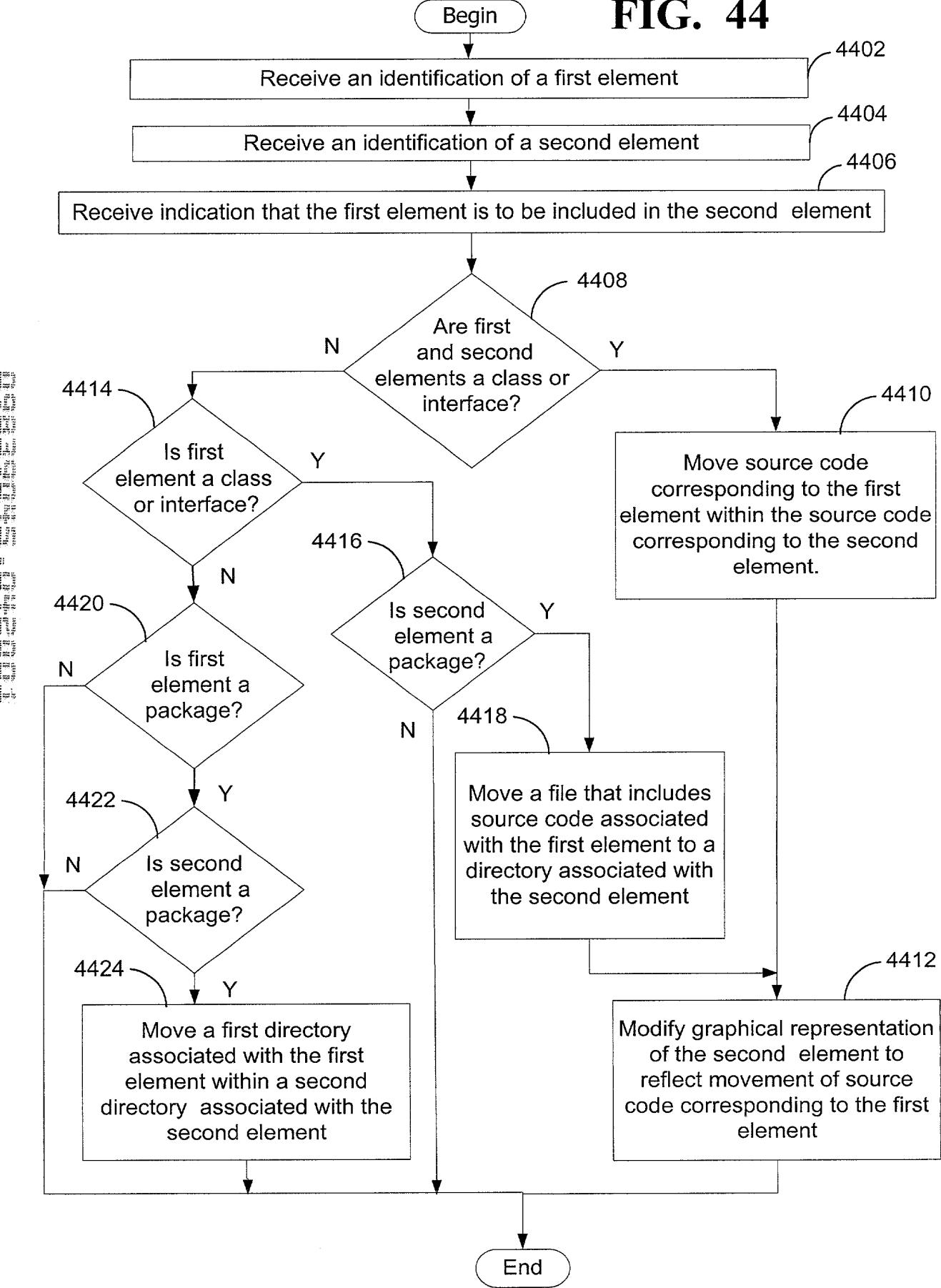


FIG. 45

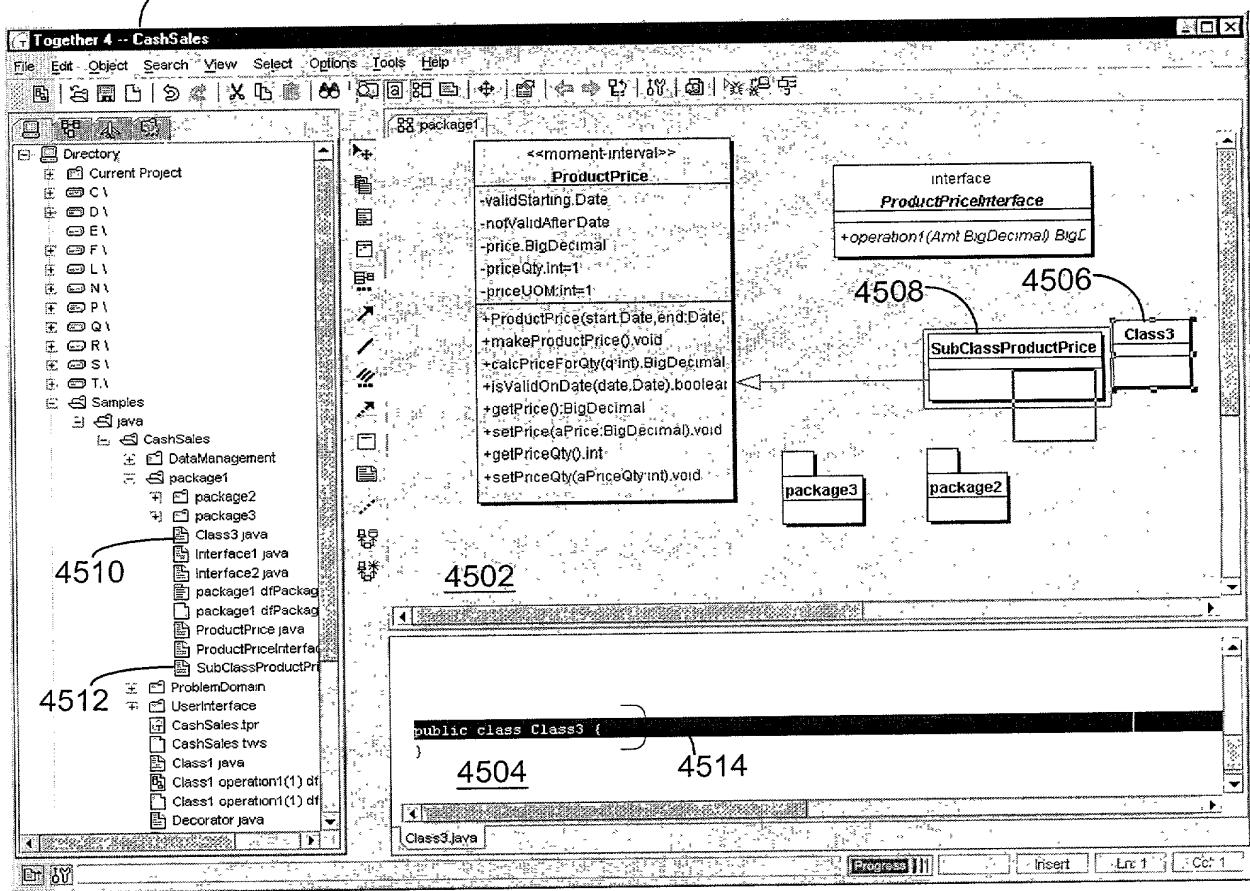


FIG. 46

OpenOffice.org Java IDE
File Edit Object Search View Select Options Tools Help

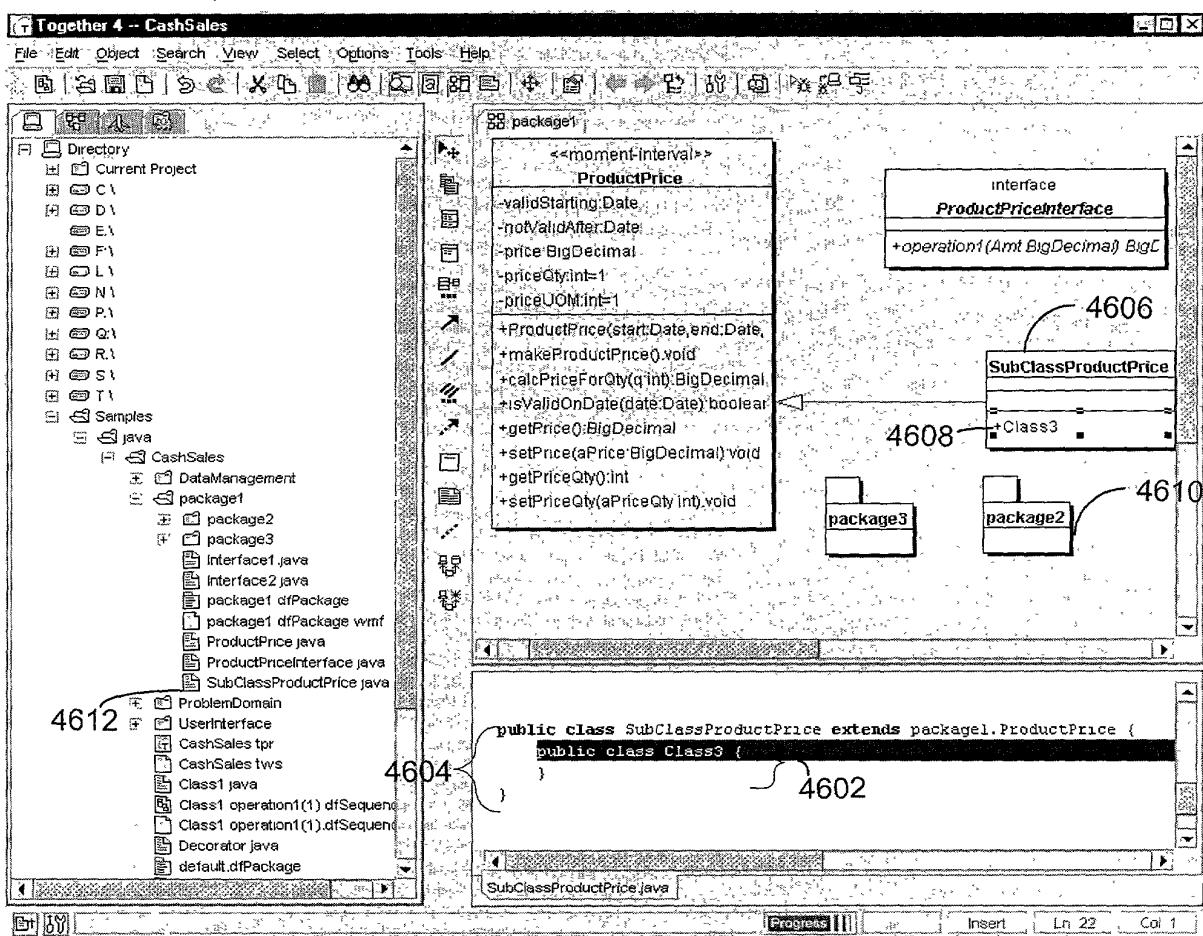


FIG. 47

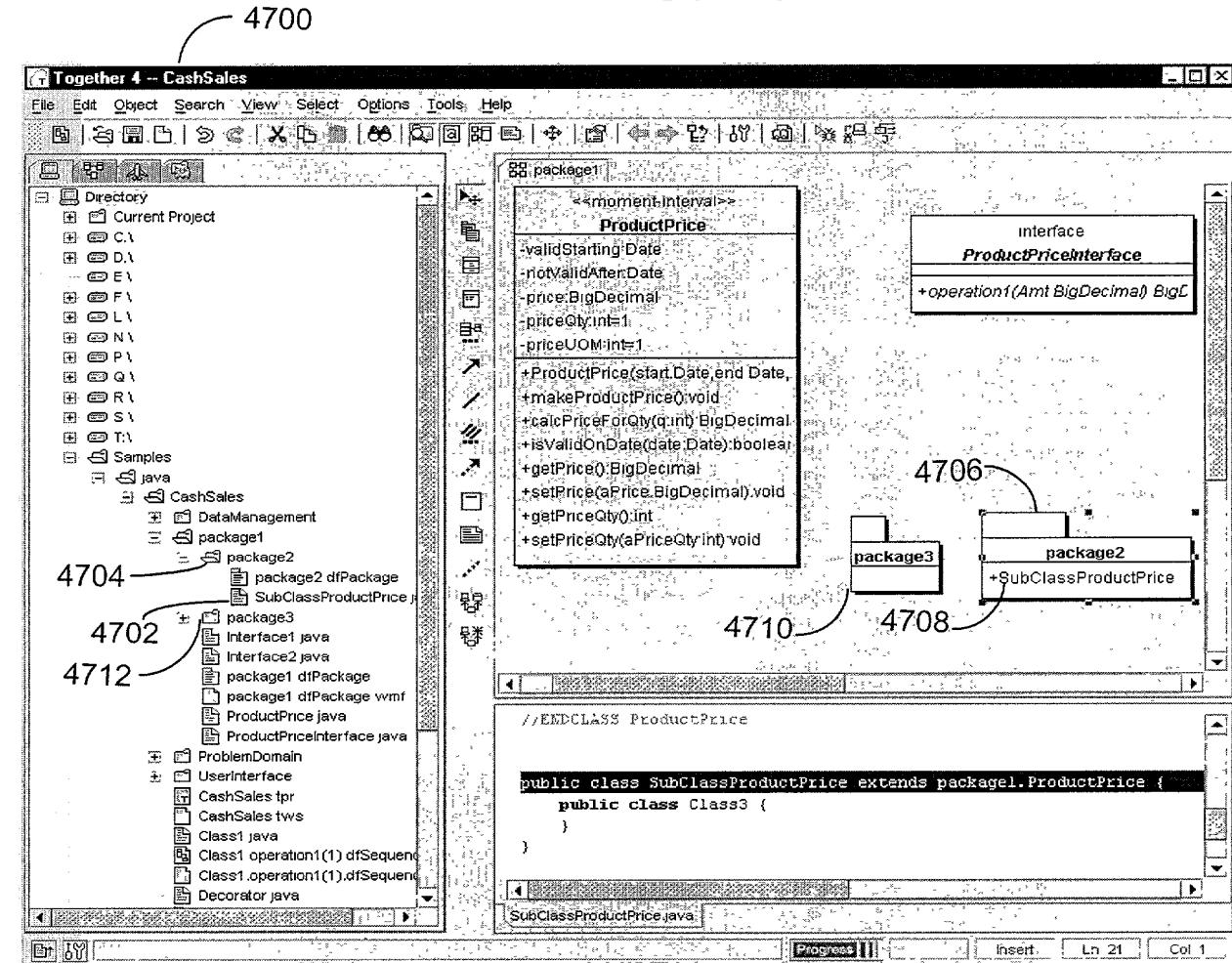
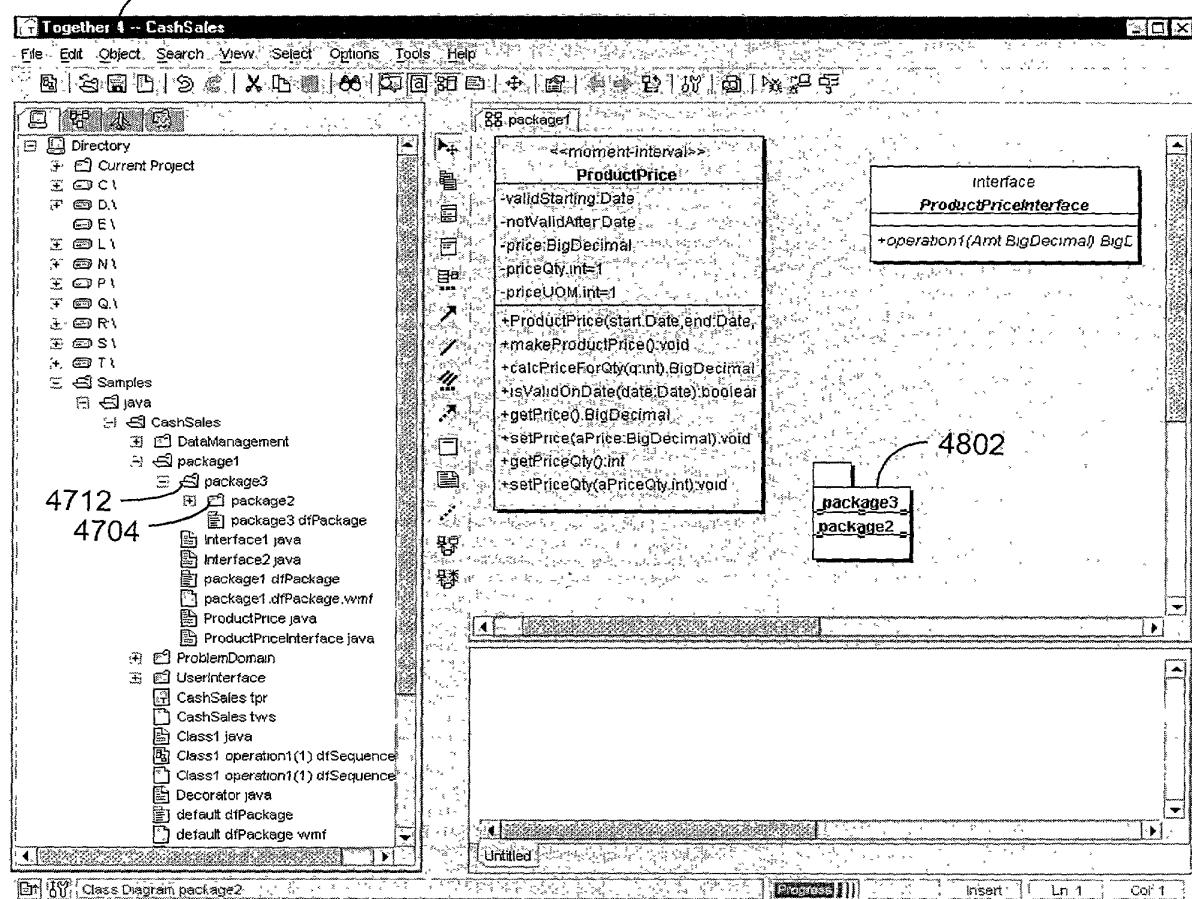


FIG. 48

4800



4802

FIG. 49

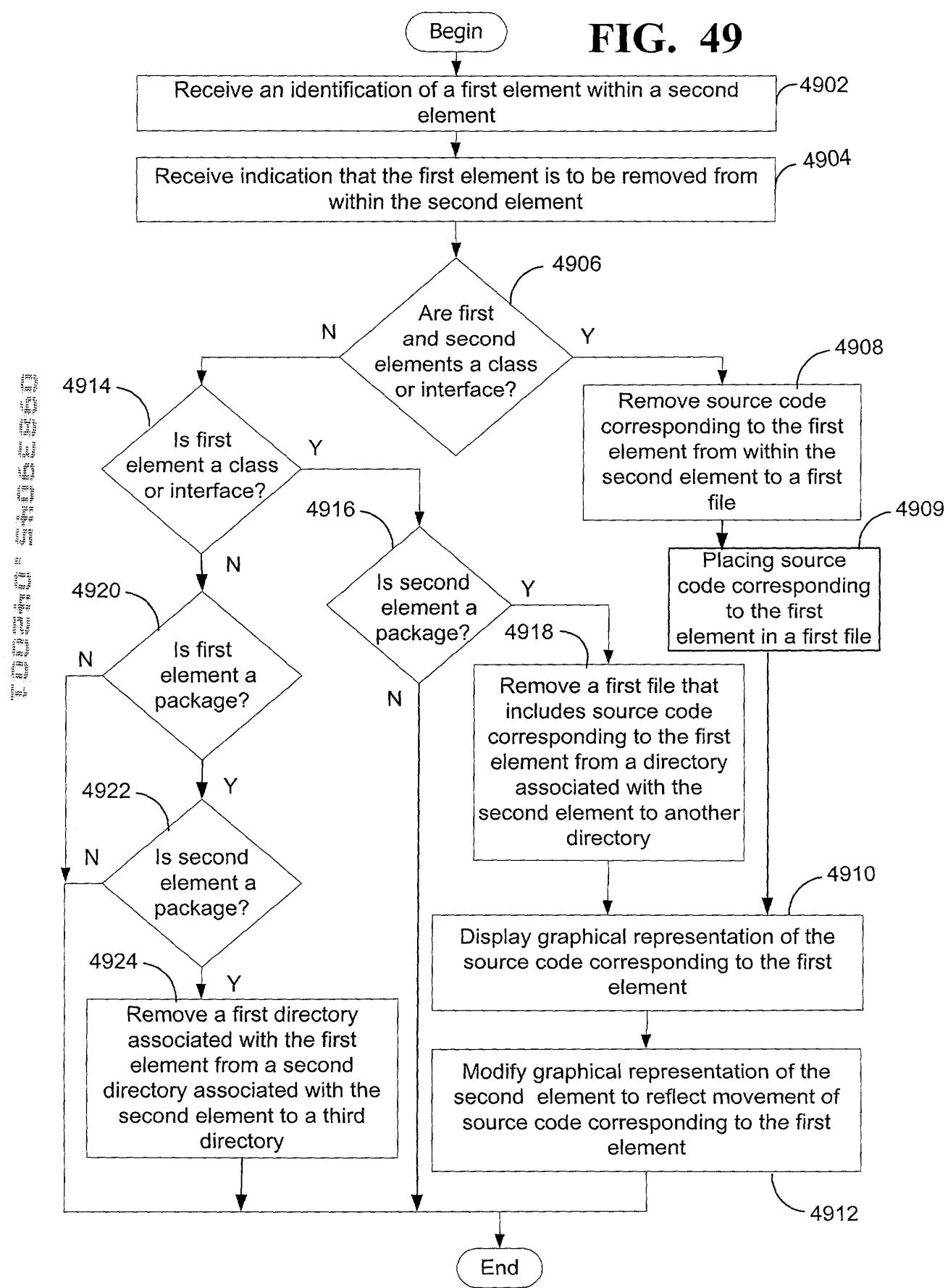


FIG. 50

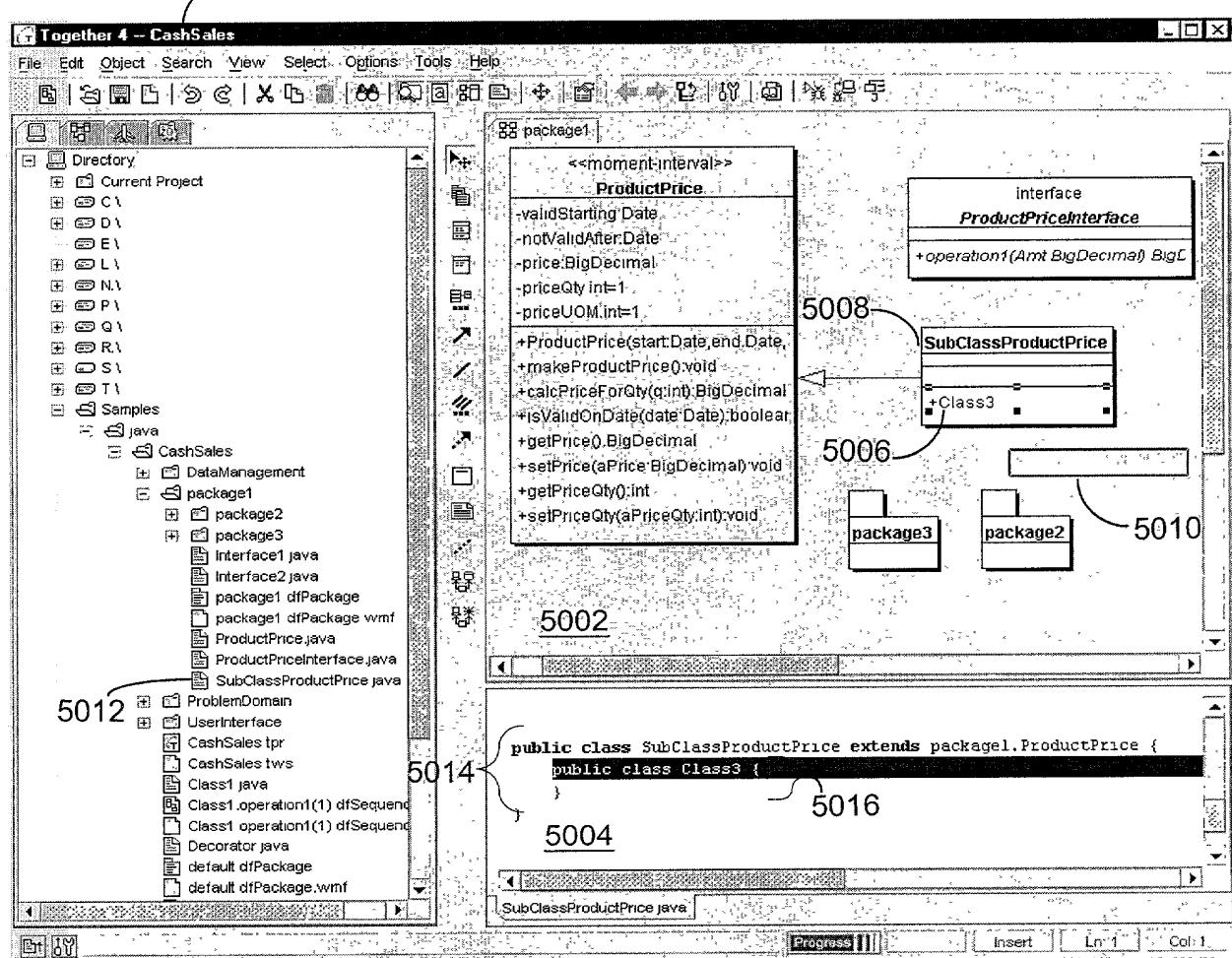


FIG. 51

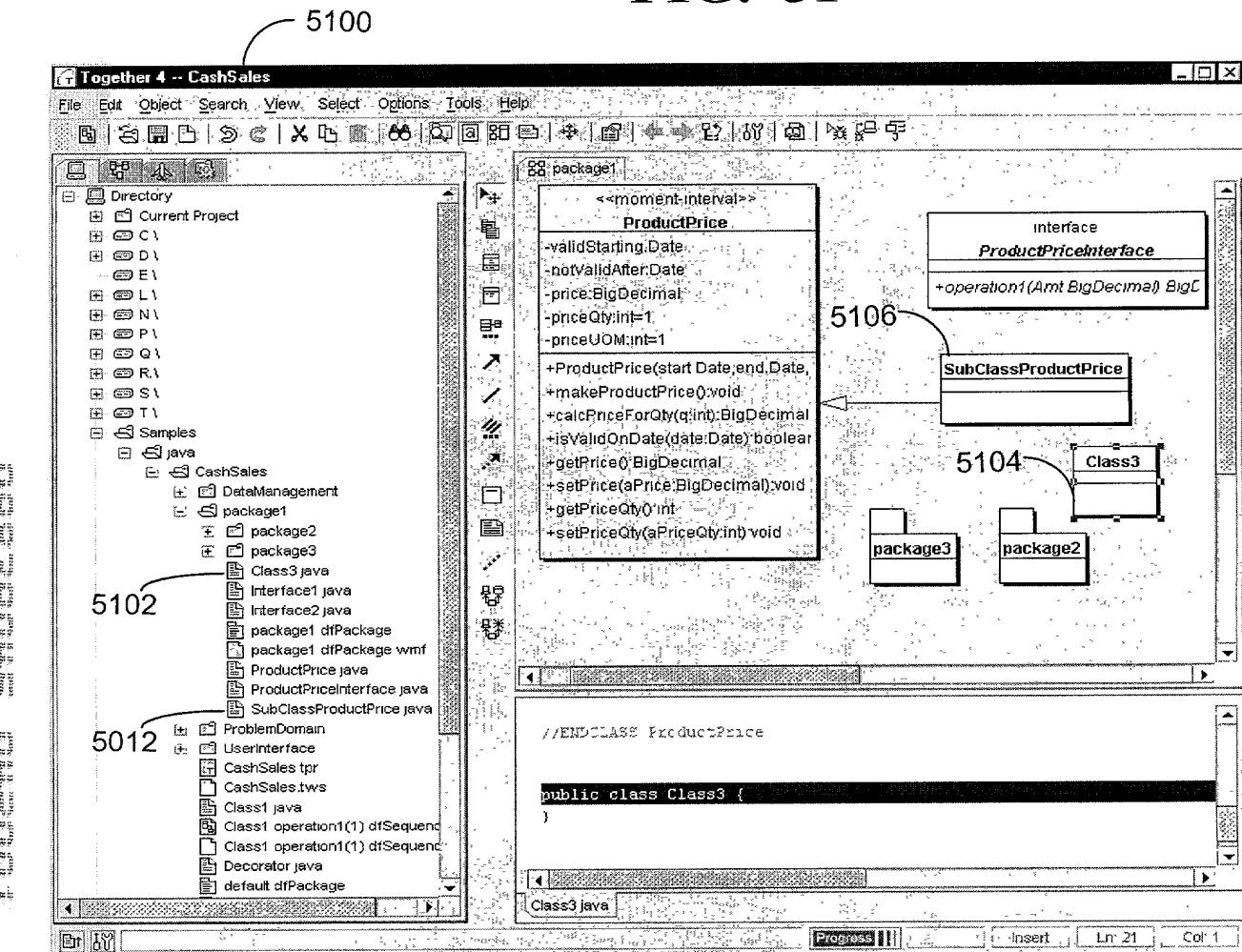
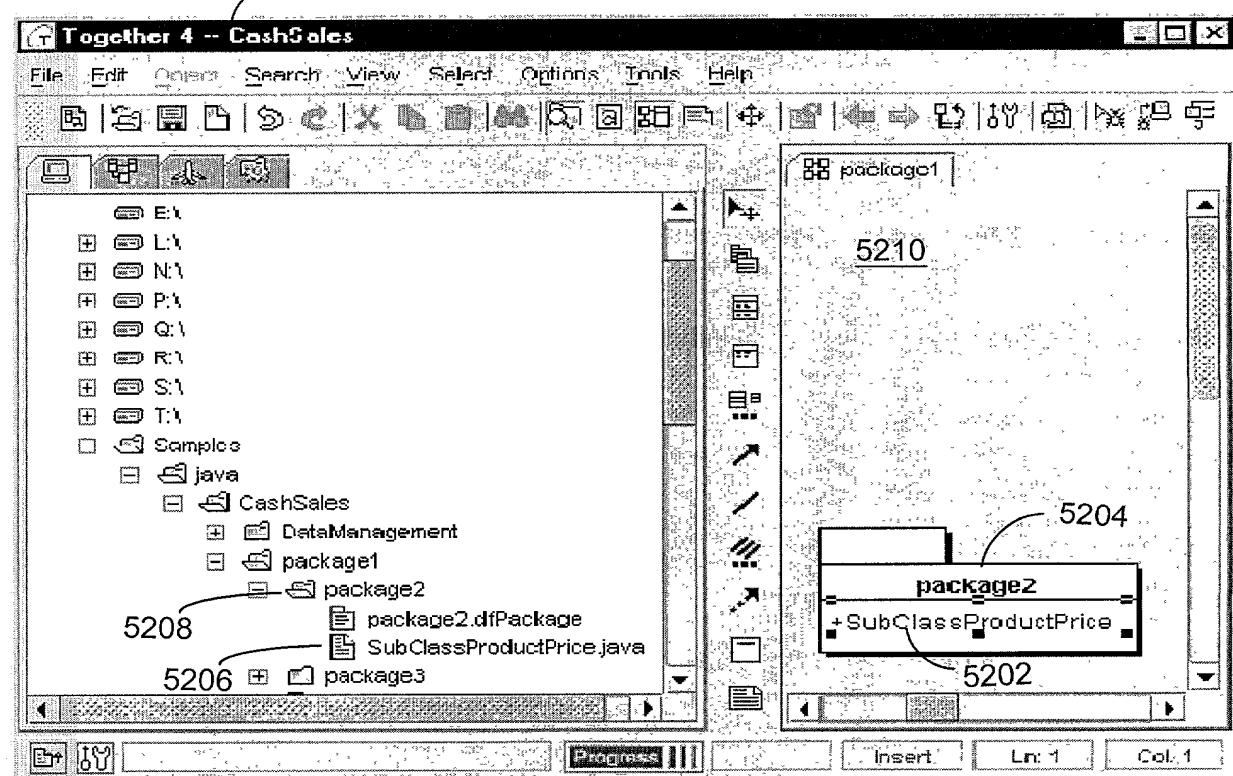


FIG. 52



5300

FIG. 53

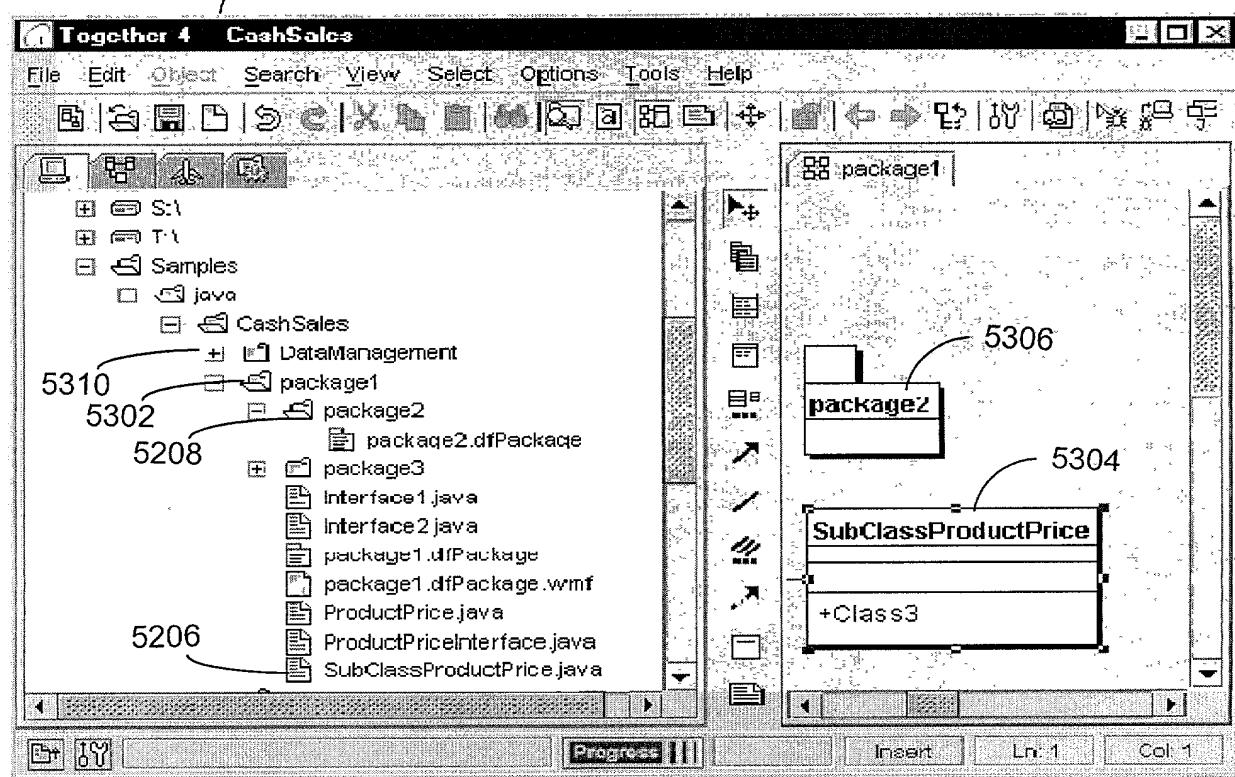
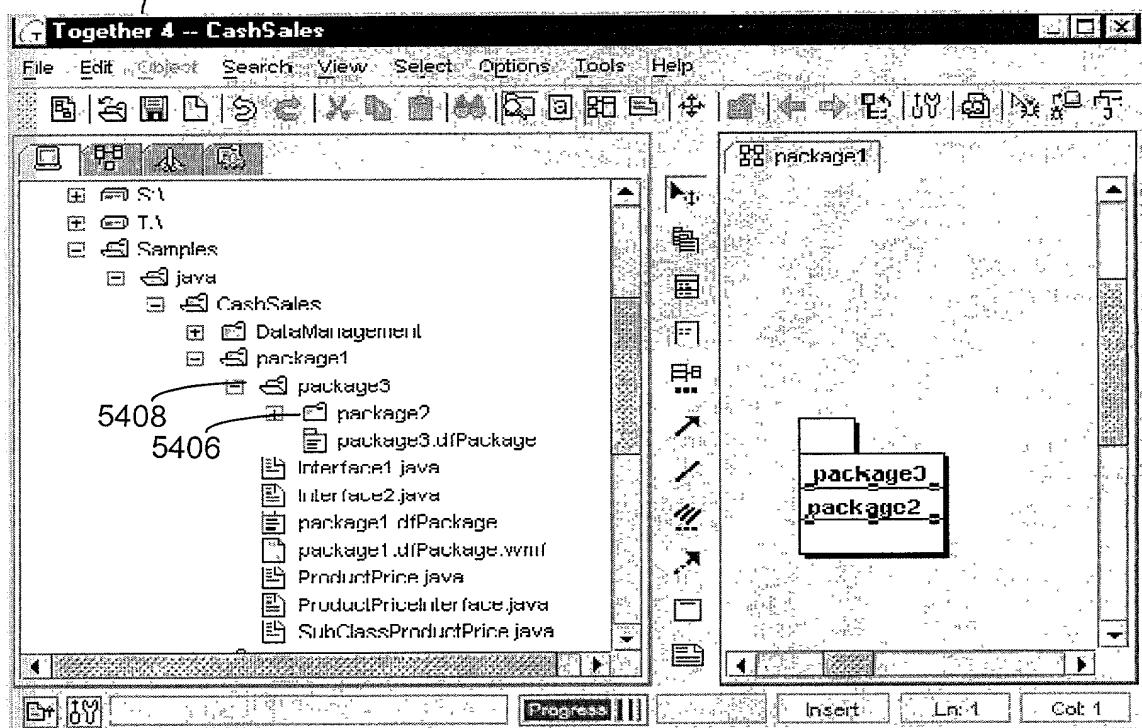


FIG. 54



5500

FIG. 55

